

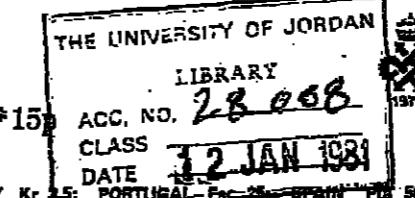
On stream
On time
with Capper-Neill
on site

FINANCIAL TIMES

PUBLISHED IN LONDON AND FRANKFURT

Monday April 2 1979

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NEWS SUMMARY

GENERAL

Beaten
Italian
Premier
resigns

BUSINESS

Row hits
pay talks
for civil
servants

CIVIL SERVICE'S two biggest unions decided yesterday to try to dismantle the whole national negotiating machinery for Britain's 600,000 civil servants in a bout of inter-union wrangling.

Today, civil servants are staging a one-day strike, which is likely to affect civil aviation, courts and government services. Back Page

UK INDUSTRY'S confidence about economic prospects continued to decline last month, according to the FT survey of business opinion. Confidence remains at the lowest level since the end of 1976, while the International Monetary Fund loan package was being negotiated. Back Page

EEC FINANCE and Foreign Ministers today begin a meeting in Luxembourg to discuss the Community's budget and European political problems. The British team, led by Dr. David Owen, the Foreign Secretary, is expected to protest at the contribution levied from Britain. Back Page

GOVERNMENT funds of about £100m-£150m are expected to be announced today for BL, formerly British Leyland, and the way will be cleared for the Industry Bill to receive Royal Assent giving the NEB a borrowing ceiling of £4.5bn. Back Page

STAGE freed

El Salvador guerrillas have released the Japanese businessman held hostage in El Salvador almost four months. The fate of the two Britons abducted at the same time is unknown.

public vote

Afghan leader Ayub Khan yesterday proclaimed an Islamic Republic after the results of the two-day referendum showed 97 per cent in favour of the move. At the time of voting three soldiers were killed and another wounded by gunmen who opened fire outside a Tehran polling station. Page 2

MERRILLA theory

The police believe thieves stole about £500,000 worth of gold and platinum from the Rome express could have been boosted by industrial disputes. Page 9

Hortage feared

Traders have warned that the shortage of vegetables caused by the Arctic winter is likely to continue during the summer. The latest wet cold weather is preventing sowing. Winter hits National Bus. Page 4

Capital joke

Refers to London's Capital oil fuel for the station's oil fuel joke. They jammed switchboard with protest after an announcement the Government planned to close the next two Thursdays. Page 5

OPEC price rise takes effect

OPEC OIL PRICES have risen by an average 17 per cent yesterday adding to the \$23bn a year in the world's imports bill according to market estimates. The European Community alone is expected to pay at least \$70bn (£25bn) a year more as a result of arrangements with leading exporters last week.

STERLING'S strength is Britain's biggest economic problem at present according to a forecast by a group of Cambridge economists. Page 4

BANK LENDING to manufacturing industry rose sharply in the three months to mid-February, although the Bank of England's figures are likely to have been boosted by industrial disputes. Page 9

ROLL-ROYCE MOTORS has started talks with U.S. Teledyne Continental Motors Corp. about a possible licence agreement to make R-R military diesel engines in the U.S. Page 4

LABOUR

TEAMSTERS' union in the U.S. announced that it would immediately start selective strikes against American road haulage concerns following a breakdown in pay talks. Back Page

OFFICIAL PAY review body may recommend to the Government in about a month to give salary increases of 5-10 per cent to chairmen of nationalised industries and top civil servants. Page 5

COMPANIES

BROKEN HILL Proprietary, Australia's largest company, is to make a one-for-five scrip issue, its first since 1974, following a sharp jump in profit for the November half-year to A\$87m (£47.8m) which exceeds the full 1977-78 profits. Page 23

LAIRD GROUP second half profits rose to £6.29m (£5.05m) bringing 1978's pre-tax profit to £11.2m (£9.09m). Page 28

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BL in talks with Japanese group on UK venture

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

Talks are taking place between BL, formerly British Leyland, and a Japanese company about collaboration on car assembly in the UK.

Mr. Michael Edwards, BL chairman, has called a conference of senior executives and union leaders in London next Monday at which details of any possible deal are expected to be discussed.

Negotiations would undoubtedly be sensitive, BL is looking for the quick introduction of a new middle-range car to safeguard employment at Cowley, where the Marina and Maxi are produced.

The obvious weakness is in the middle-range cars, where the LC-10 replacement, for the Marina and Allegro, is scheduled for Cowley. Cowley is not expected to be ready for the market until early 1983.

Shortage of technical resources has delayed development of the new car and raised doubts as to whether BL will be able to generate enough finance for the project.

Hopes of an early link with Renault, the French State company, have faded. Talks about joint ventures in component manufacture and assembly have made little progress.

The obvious advantage for the Japanese of co-operation with BL would be to sidestep protest about foreign imports. Cunro-

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The political implications, however, spread far beyond Britain. The question is likely to be raised in the EEC of whether Japanese involvement in the UK might provide a springboard for wider European sales.

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OVERSEAS NEWS

THE UNITED STATES DEBENTURE CORPORATION LIMITED

Year Ended 31st January, 1979.
Extracts from the Directors' Report.

Main Features	1978	1979
Gross Revenue	£5,041,548	£4,604,895
Per Ordinary 25p Stock Unit:-		
Earnings - Basic	4.21p	3.77p
Earnings - Fully diluted	4.19p	3.74p
Dividend	4.05p	3.52p
Net Assets	£88,308,218	£77,884,414
Net Asset Value per Ordinary 25p Stock Unit:-		
Basic	121.6p	106.2p
Fully diluted	121.1p	105.7p

Dividend and Revenue
Your Board are pleased to recommend that the total net dividend per stock unit for the year be raised 15.1 per cent. to 4.05p. This increase compares favourably with the 9.3 per cent. rise in the Retail Price Index during the year. The proposed year dividend can be directly attributed to the 13.4 per cent. expansion of after tax revenue available to Ordinary stockholders to a record level of £2,863 millions.

Over the last ten years, your Company's gross dividend has risen by 10.5 per cent. compared with a 12.3 per cent. rise in the national dividend on the Financial Times All Share Index.

Investments
During the year, the total net assets of your Company advanced by 13.7 per cent. to £88,308 millions. The underlying performances of our two principal areas of investment, namely the United Kingdom and North America, are detailed below.

The value of the United Kingdom portfolio grew by 8.2 per cent. compared with the 8.5 per cent. increase in the Financial Times All Share Index for the same period. Whilst this comparison is perhaps a little disappointing, it should be borne in mind that the index contains 750 constituents, many of which are very small companies. By contrast, the Financial Times Industrial Index, representing thirty large companies, was up 0.1 per cent.

The North American portfolio advanced by 24.5 per cent. This compared with a 23.9 per cent. increase in the Standard & Poor's Composite Index and a 39.1 per cent. increase in the Toronto Composite Index, both of these indices being adjusted for movements in the investment currency premium and the exchange rate. In most of these comparisons, the total bond portfolio has increased by 10.5 per cent. and the equity portfolio by 11.5 per cent.

Comparing the investments in the United States of America, we valued at more than five times those in Canada. The percentage of total assets invested in North America rose to 35.7 per cent. (1978: 32.4 per cent.), whilst the percentage in the United Kingdom decreased to 63.5 per cent. (1978: 66.8 per cent.). These percentage changes were almost entirely due to relative Stock Market movements, with the marked 6.5 per cent. rise in the investment currency premium which now accounts for 11.6 per cent. of total net assets.

The 1978 Finance Act introduced legislation lowering the taxation Capital Gains within Investment Trusts from 17 per cent. to 10 per cent. retrospective to April, 1977. This legislation was most welcome.

Energy
The classification and distribution of net assets shows that 15.1 per cent. of total net assets were invested in the oil and gas exploration sector, both in the United Kingdom and North America. This is in accordance with our declared policy of an above average portfolio weighting in energy and related stocks.

Only time will tell the extent to which the new regime in Iran will restore lost production, but it is comforting that many of the energy company shareholders that your Company owns stand to benefit from the enormous potential wealth of their known reserves of oil, gas and coal.

Summary
We believe that the Stock Markets of the United Kingdom, the United States of America and Canada will all be at higher levels in a year's time. However, in the shorter term, there may well be reactions to lower levels. Nevertheless, we believe that conditions exist in these three areas of investment which are conducive to improvement in share markets over the longer term.

Policy
Both within and outside the Investment Trust movement there has been much discussion on the specific roles that Investment Trusts have to play. At such a time, it would therefore seem appropriate to re-state the policy of your Company and to portray its character. Our objects continue to be to provide a rate of increase in dividend income in excess of the national average, while retaining an acceptable risk profile in the Company's investments.

It is intended that these objectives should be achieved through the medium of investment in the United Kingdom, the United States of America and Canada, principally in equities. It is not the present intention of your Company to invest, in a significant way, in other areas. We like to feel that these policies are in accordance with the long-term requirements of our shareholders, both private and institutional.

The Annual General Meeting will be held on 16th May, 1979 in London.

Curfew and geiger counters in Middletown

THESE DAYS there is a 9 p.m. to 5 a.m. curfew in Middletown, Pennsylvania, only a few thousand yards from the stricken nuclear reactor that squats ominously out in the broad Susquehanna River, still spewing out plumes of radioactive gas and vapour. Mr. Robert Reid, the town's mayor, ordered the curfew—not because the governor of his State had advised people to stay indoors as much as possible since Wednesday's nuclear accident—but to prevent looting. So many of its 11,000 population have left Middletown that their empty houses

invite pilfering. Asked what he would do with looters, Mr. Reid, who boasts of being Pennsylvania's only black mayor, said half-seriously "shoot 'em."

His reaction is typical of the area, situated between the site of that 19th century bloodbath, Gettysburg, and the Pennsylvania Dutch country to the east, where fundamentalist Amish and Mennonite sects regard buttons, let alone nuclear generators, as dangerously new-fangled. Torn between the now very real danger of radiation and a stolid, workmanlike view that nuclear power, like any other energy-producing busi-

ness, is risky but necessary, the centre, at Hershey (better known as the chocolate-making capital of America), had any customers by this weekend—130 adults and children with nowhere else to go.

Several thousand have left the area to stay with friends or to

take early holidays, and the 70,000 inhabitants of Harrisburg, like everyone else, are suspended in uncertainty. They have seen the men with Geiger counters on their streets. Some, according to Press conferences

in Middletown, have heard Nuclear Regulatory Commission officials estimate that the accident has increased local residents' chances of cancer, though only one or two cases for every 10,000 of them exposed to 1,000 millirems of radiation—a level the NRC does not think will occur—and the area's farmers have been alarmed by the report that at least one supermarket chain, Safeway, has stopped buying Pennsylvanian milk.

The country's resources are now mobilised to deal with the accident, following President Carter's advice to everyone "to err on the side of caution and safety." Top NRC inspectors from Washington are now supervising the operations. Metropolitan Edison, the company that runs the plant, Energy Department is present in force.

The inquest on the accident and by the start of the week no one had much clue how when it would end—will be carried out chiefly in Washington by the NRC and Congress. Mr. Reid, the Middletown mayor, says that he and local officials will want substantial reassurances before the plant ever starts up again.

Peking decree silences wallposter dissidents

BY JOHN HOFFMANN IN PEKING

THE PEKING leadership has effectively silenced the voice of dissidence and democracy in the city, both by decree and by swiftly erasing the wallposters which were their visible evidence.

Laneways, walls in Peking's main shopping streets and construction-site fences were conspicuously unadorned yesterday, following a city-wide clean-up.

Wallposters remained at the "Wall of Democracy" at the city's west end, and an unusually big crowd of readers gathered there yesterday, realising that this was now

their only canvas for free expression.

The Communist Party leadership has made it clear that expression is not to be as free as in the past few months.

A "public notice" circulated quietly a few days ago prohibits slogans, wallposters, publications and photographs that oppose socialism, proletarian dictatorship, party leadership or Chairman Mao Tse-Tung thought.

Demonstrations are to be supervised by police and disturbances in Government institutions are forbidden.

The new moves are a tough suppression of the wave of liberalism which has gathered strength in Peking since last year.

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THE ARAB LEAGUE BOYCOTT

Egypt in political isolation

BY OUR CAIRO CORRESPONDENT

POLITICAL isolation, including the removal of the Arab League headquarters to Tunis, is likely to cost Egypt more than the economic sanctions passed by the Arab League in Baghdad.

Egypt's trade with the Arab world accounts for only about 6 per cent. of its total trade, and an oil boycott would be ineffectual because Egypt is almost self sufficient in oil.

Calls to withdraw Arab bank deposits are unlikely to affect Arab banking institutions in Cairo, according to the Libya's central bank's 20 per cent. stake in the Arab International Bank, the oldest offshore bank in Cairo, even though it fought a bloody four-day war with Egypt in July 1977 and has had no diplomatic contacts since.

Kuwait, Bahrain and Saudi Arabia yesterday announced that their ambassadors were being withdrawn from Cairo and the Arab League resolutions but

Tunisian ambassador unexpectedly left for home.

More problematic is the fate of \$2,000m of Central Bank Deposits held by Kuwait and Saudi Arabia in Egypt.

Attempts to withdraw these funds before time would be stoutly resisted by the Egyptian authorities.

Meanwhile Cairo is preparing to greet Mr. Menahem Begin, the Israeli Foreign Minister, who is due here today on a 24-hour visit. Israeli officials have been asked to "keep the visit brief" and to "concentrate on isolating Egypt while trying to avoid a military confrontation with Israel."

They were happy that Saudi Arabia's agreement to the boycott could provide a potential link with the U.S. and that this show of Arab support reduced Syria's political dependence on the Soviet Union.

Nasser Kaddour, the Egyptian Foreign Minister, confirmed that Syria was considering withdrawing its 26,000 peace-keeping troops from Lebanon. There is concern here that Israel might provoke a confrontation in Lebanon with Syria, to test Egypt's adherence to the treaty.

Iran votes for Islam republic

TEHRAN—Ayatollah Ruhollah Khomeini announced yesterday that Iranians had voted "unanimously" for the transformation of the nation into an Islamic republic, according to the state radio. AP reports from Tehran. He decreed that April 1, henceforth to be known as "Republic Day" in honour of the result of the nation's referendum.

Namibia talks start

Mr. P. W. Botha, the South African Prime Minister, and Mr. R. F. Pik Botha, the Foreign Minister, will hold talks today with the South Africa-sponsored constituent assembly in Namibia to decide whether or not finally to abandon the western efforts for an internationally-acceptable settlement in the territory, Quentin Peel writes from Johannesburg.

Blutto 'resigned'

Mr. Zulfkar Ali Blutto, the former Pakistan Prime Minister, was yesterday reported resigned to his fate on the gallows—despite pleas for mercy from a former Ministerial colleague, Reuter reports from Islamabad.

Chirac re-elected as Gaullist party president

BY ROBERT MAUTHNER IN PARIS

M. JACQUES CHIRAC was re-elected President of the Gaullist RPR Party on Saturday at an emotion-charged national conference during which he strongly attacked both the Government's economic policies and the Common Market.

The former Prime Minister, who resigned in 1976 after policy differences with President Giscard d'E斯塔ing, was the only candidate running for the Gaullist leadership and was re-elected by 97 per cent. of delegates' votes.

M. Chirac was particularly scathing about the way the European Community is currently functioning.

The European institution had proved to be importunate in dealing with internal community problems and with threats from outside. The Brussels Commission, according to M. Chirac, had refused to take effective measures to solve the crisis of the steel industry. It had also stood by more or less while certain of M. Giscard's partners—a clear reference to the UK—had blocked common decisions.

U.S. airline stops flights

By Stewart Fleming in New York

WIDESPREAD disruption is threatened to air travellers across the United States as a result of a decision by United Airlines to cancel all flights until April 9. The nation's largest carrier takes an average of 150,000 passengers a day to 110 cities.

Some 18,600 mechanics, members of the International Association of Machinists and Aerospace Workers, went on strike on Saturday over a wage claim. Although United has offered a 30 per cent increase over three years, the workers want an unlimited cost of living protection clause.

The 30 per cent increase, well above the Carter Administration's anti-inflation guidelines, is allowed because of an earlier settlement in the airline industry, before the wage guideline policy came into effect.

David Buchan reports from the scene of America's worst nuclear accident

By David Buchan

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better news on the side of caution and safety." Top NRC inspectors

from Washington are now supervising the operations.

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the plant ever starts up again.

Uganda rebels 'set to take Kampala despite reversals'

BY MARK WEBSTER IN NAIROBI

UGANDAN EXILE forces said yesterday that they were still in a position to take the capital Kampala, despite confirmed reports that they had been driven back to about 20 miles from

the city. Diplomats in Nairobi said

Libyan soldiers supporting

President Amin had apparently

spearheaded the assault on the

Tanzanian-backed invasion

force, which had dug in only

four miles from Entebbe

Airport.

Residents in the capital said shelling could again be heard to the south of the city, two quiet nights. Diplomats here said that even though the invasion force had been pushed back to about 20 miles from

Kampala should still be

within reach of their 120mm

long-range artillery.

The Uganda National Libera

tion Forces (UNLF) denied

the defeat is being treated with

scepticism in Nairobi because

the once heavy shelling of Kampala stopped at about the same

time as the Ugandan Govern

ment claimed its victory.

Travel fast asleep to Paris

NIGHT FERRY

Sleeper Services

The Night Ferry Sleeper Service leaves London Victoria every night at 2125 hrs and arrives in PARIS before 0900 hrs next morning. You get tea in the morning or a breakfast if you wish.

For business or pleasure it makes best use of travelling time.

Details from Principal British Rail Stations or your local Travel Agent.

*225 to 31 March

Inter-C

Brazil concludes new oil supply deal with Iran

BY DIANA SMITH IN RIO DE JANEIRO

THE NATIONAL Iranian Oil Company (NIOC) will ship over 4m barrels of oil to Brazil early this month.

The consignment is part of a revised contract between Brazil's oil monopoly, Petrobras, and NIOC for supplies of 200,000 barrels a day until the end of this year. Last year, Petrobras imported 150,000 b/d from the NIOC, then Brazil's third largest foreign supplier of crude.

The political crisis in Iran placed severe strains on Brazil's oil stocks which by early March were down to 40 days' forward supplies. Thus, a new agreement with NIOC was of the utmost urgency.

While several industrialised nations faced the risk of losing oil supplies from Iran, Petrobras had a relatively strong bargaining point—it had never used intermediaries in its trading with Iran and always dealt directly with the NIOC.

This point appears to have been appreciated by the NIOC since not only did it agree to resume and, in fact, increase oil shipments to Brazil but, after last week's OPEC meetings, Iranian officials hinted that Brazil would be one of the few countries allowed to purchase Iranian oil at less than \$15 a barrel.

While the deal with Iran has eased the strain on Brazil's

stocks, the financial strain of the general OPEC increases will do nothing to help an already overburdened imports bill. Petrobras calculates that the increases will add a net \$250m to its year's oil imports, bringing the gross imported crude bill to close on \$5bn in 1979.

ENI visit to Mexico

BY RUPERT CORNWELL IN ROME

SIG. GIORGIO MAZZANTI, the new president of ENI, the Mexican state oil corporation, is currently on a trip to Mexico to sound out the possibilities of securing future supplies from what is shortly expected to become one of the world's leading oil exporting nations.

The trip of Sig. Mazzanti, who is accompanied by Sig. Enzo Barbaglia, president of the group's refining offshoot AGIP, follows similar visits to Libya, Iraq and Iran since he took over as head of the group two months ago.

It was reported here that one of the aims of his trip will be to explore whether scope exists for contracting for oil imports in exchange for supplies of Italian know-how and equipment to speed the development of Mexico's energy industry. Sig. Mazzanti will be seeing

With this extra onus, Brazil's hopes of achieving a trade surplus this year appear to be dashed, since the extra cost of oil goes hand in hand with a series of agricultural disasters that will cut into foodstuff exports and require higher foodstuffs imports.

A TEAM OF 15 leading British industrialists, led by Sir Kenneth Keith, chairman of Rolls-Royce, is to visit South Korea from May 7 to 11.

This is the first time that such a high level mission from Britain has visited South Korea and reflects the growing importance of this country as an export market. The British Overseas Trade Board said it had arranged the mission to demonstrate that British industry was interested "at the highest level" in developing trade and industrial co-operation with South Korea.

During the five-day visit, mission members representing such companies as the Dowty Group, Hawker Siddeley, Hill Samuel, ICI, Lazarus, NEI, and RTZ will have meetings with Government ministers and senior business men. The BOTE is also arranging in conjunction with the Machine Tool Trades Association an all-British machine tools exhibition in

Seoul from May 21 to 26. More than 50 companies will be participating. The BOTE is sponsoring a further 15 trade missions to South Korea later this year.

Britain increased its exports to South Korea by 70 per cent to £130m. Despite this success,

Britain's share of the market decreased from 14 per cent in 1977 to 12.5 per cent in 1978 (first nine months). It is faced with fierce competition not only from the traditional suppliers—Japan and the U.S.—but from West Germany and France.

The Department of Trade is anxious that British companies do not lose out in this important market where the GNP (at current prices) has risen from \$17.2bn in 1974 to \$39.3bn last year and a forecast \$47.3bn this year. It points out that the South Korean Government is anxious to decrease its dependence on its traditional suppliers.

S. Korca Survey. Pages 15 to 26

Liberians attack France over ship boycott incident

BY IAN HARGREAVES

LIBERIA has protested strongly to the French Government about its failure to intervene in a ship boycott incident reminiscent of the *Globus Venus* affair two years ago.

According to the Liberians, the French police refused to implement a High Court injunction demanding the release from Boulogne Harbour of a vessel flying the country's flag.

So far, the French Government has not responded to the Liberian request for an explanation of the incident.

The trouble began at the end of February when, following contacts between the ship's Indian crew and representatives of the International Transport Workers Federation (ITF), the seamen came out on strike for ITF pay levels.

Backed by ITF officials, they blockaded the Greek-owned S. 380 dwt freighter the *Global Med*, and at one stage locked the captain and senior officers in a cabin, allegedly without

food and water.

The owner, Trans-Orient Freight Transport Corporation, refused to negotiate with the mutineers, and visits to Boulogne by Mr. George Cooper, Liberia's deputy maritime commissioner, a senior Indian union official and an Indian diplomat from London failed to resolve the matter.

A week ago, the ITF says the owner tried to storm the ship. Tear gas was used by police and one union official was injured.

Mr. Cooper said his Government was angry at another example of Liberia's legitimate rights being ignored by the French authorities. France is known for its extremely hard line against flag of convenience shipping operations.

The owners' agent yesterday could not confirm the pre-strike level of pay of the Indian ratings, but the ITF said that basic wage was around £50 per month, with an effective rate of about twice this amount.

In the past few months, Liberia has been engaged in a vigorous diplomatic campaign to safeguard the position of its seafarers in the largest in the world

against ITF attacks.

The ITF has said that it will step up the attacks, partly to counter this diplomatic offensive.

SHIPPING REPORT

OPEC rises dampen tanker rates

BY OUR SHIPPING CORRESPONDENT

LAST WEEK'S OPEC price increases had a predictably dampening effect on the oil tanker market, especially in the Gulf.

The Harley Mullion weekly index dropped sharply from worldwide 158 to WS148 and in all the major loading areas except West Africa there was an excess of tonnage compared with available cargoes.

Because of the availability of some cargoes at the old oil prices, some shipowners were able to obtain contracts at well above the going rate, but the overall tone of the markets was dull. The rate for a VLCC loading in the Gulf was down to WS32 by the end of last week.

But with OPEC price-fixing out of the way, tanker brokers are predicting a steadier level of demand for vessels, although rates will continue to depend upon the ability of owners to schedule ship movements so as to avoid long queues of ships in particular areas.

The evidence of the last six

months is that they are succeeding to a surprising extent, with the help of their Oslo-based association Intertanko, in achieving just that.

Another sign of an underlying improvement in the market was the report last week that a Swedish operator has taken a 5-year charter on a 262,000 dwt vessel at \$1.525.

An even larger Danish ship of 332,000 dwt was fixed for one year at WS32.5, indicating an expectation of slightly improving markets.

In dry cargo trades, the best indication of buoyancy is the difficulty in obtaining details of charters because of secrecy clauses insisted upon by the charterers.

There have been especially sharp improvements in grain business out of Argentina, where rates for a 30,000 dwt ship on the Far East voyage is more than 30 per cent better than rates paid in January. This represents a useful gain, even allowing for higher marine fuel charges.

There is also a strong level

of inquiry for period charters to counterbalance the effect of volatility in tanker markets, which normally have a marked effect on the rates obtainable by larger bulk carriers.

The most important long-term indicator of all in shipping, the value of second-hand vessels, continues to be positive.

The London-based Faros Shipping company, for example, was able to conclude the sale of the 66,000 dwt bulk carrier *Agememnon*, built in 1968, at \$6.15m. The same ship was available at \$5.8m a month ago.

Likewise in tankers, a small 18,000 dwt vessel built 18 years ago found a lot of bidders and went for \$2m, which broker Galbraith Wrightson says is \$0.5m more than the same vessel would have been valued at six months ago.

The sales lists do, however, continue to indicate the diminishing fortunes of P & O, Britain's biggest shipping company, which last week sold three 12-year-old cargo liners for \$2m each to Far East buyers.

£200m Indian engines plant

BY K. K. SHARMA IN NEW DELHI

PLANS FOR a major plant costing Rs 3 bn (£about £200m) capable of producing 100,000 car engines a year have been formulated by India's Ministry of Industry which is now in the process of restructuring the motor sector.

The plans, which will now go to the Cabinet, envisage the import of foreign technology for the manufacture of engines which could then be farmed out to the car companies which currently produce three obsolete models that are nearly 20 years old.

Mr. George Fernandes, Minister of Industry, recently sought has still to be decided by the Ministry of Industry which is keen to introduce fuel economy engines for all units, hence the proposal that the public sector plant be based on foreign technology.

The form of the restructuring has still to be decided by the Ministry of Industry which is keen to introduce fuel economy engines for all units, hence the proposal that the public sector plant be based on foreign technology.

The plan envisages the export of 40,000 engines annually to markets in Southeast Asia and the Middle East.

Talks on the new engine project have been held mainly with French companies like Peugeot and Citroen but proposals from others are being sought before a final decision is taken.

But plans to attract foreign collaboration for using India as a base for export to developing countries are not making progress, even though labour costs are cheap here and there are already several plants racing

components for foreign companies which have been involved in discussions feel that costs in India would still be too high for the proposed plants to be competitive with Japanese car

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UK NEWS

Reactor turbine system 'chosen'

A REPORT by the Central Policy Review Staff on the choice of turbine for the advanced gas-cooled reactor nuclear power stations at Heysham and Torness is thought to be completed, and to have come down in favour of the "six-exhaust" system.

The review staff was appointed by the Prime Minister to look at the choice of systems last year, largely at the instigation of the General Electric Company (GEC), one of the two UK turbine manufacturers.

The six-exhaust system is the preferred choice of both the Central Electricity Generating Board, which will build Heysham, and the South of Scotland Electricity Board, which will build Torness. Both have said so strongly to the Review Staff in their evidence.

However, it is not so clear which manufacturer will profit from the decision. Both GEC and Northern Engineering Industries make four-exhaust and six-exhaust systems, and both have been asked to submit tenders.

Technical

Northern Engineering has claimed that it has a superior six-exhaust technology, and believes it would be the favoured supplier for all four sets for the two stations. The sets are worth about £140m.

GEC has consistently refused to comment on the issue, saying the argument is a highly technical one.

While the Generating Board has made it clear to the Review Staff that it prefers six-exhaust technology, it has not so far as is known, made it clear which manufacturer it prefers. However, its general wish to see rationalisation in the industry—with the Parsons turbine division of Northern Engineering merging with GEC, and the Clarke Chapman boiler-making division merging with Babcock and Wilcox—may influence its choice.

Informal talks between Babcock and Northern Engineering-Clarke Chapman have continued even after a formal breakdown of discussions last year, though no agreement yet seems to have been reached.

COMPANY NOTICES



BARLOW RAND LIMITED
(Incorporated in the Republic of South Africa)
DECLARATION OF PREFERRED ORDINARY DIVIDEND NO. 2
NOTICE IS HEREBY GIVEN that the preferred ordinary dividend No. 2 in respect of the period from 1 January 1978 to 31 December 1978, payable in the currency of the Republic of South Africa, to holders of preferred ordinary shares registered as such at the close of business on 20 March 1979, will be paid on Friday, 27 April 1979, or on or about 12 June 1979.
For the purposes of determining those holders to whom the dividend will be paid, the transfer books and registers of holders of preferred ordinary shares in South Africa and the United Kingdom will be closed from 21 to 27 April 1979, inclusive, both days being public holidays.
The rate of exchange at which the dividend will be converted into South African Rand will be the average transfer rate of exchange between South Africa and the United Kingdom in terms of the South African Income Tax Act, 1962, as amended, in so far as the dividend is paid in South Africa, and the rate of exchange will be the average transfer rate ruling on the first business day after 28 May 1979.
In terms of the South African Income Tax Act, 1962, as amended, a non-resident shareholder may be liable to tax on dividends payable to him if he is a resident of South Africa, and (2) if he is a citizen, a South African company, or a company which, according to the law, has ordinary residence or carrying on business in South Africa, and (3) if he is a citizen of another country whose addresses in the registers are outside the Republic of South Africa.
By Order of the Board
W. S. WARDING
Group Secretary
30 March 1979

Registered Office:
Barlow Park, Katherine Street,
Sandton 2186, South Africa
Transfer Register:
Barlow Rands Limited,
2nd Floor, Devonshire House,
Bridgewater Place, London SW1,
United Kingdom.
Last Registered
Office: London
Registrar's Department, The Causeway,
Goring-by-Sea, Worthing, West Sussex BN12 2SA, England.

NOTICE OF RATE OF INTEREST
U.S. \$25,000,000
BEARER DEPOSITORY RECEIPTS
Representing interests in a
FLOATING RATE CERTIFICATE OF
DEPOSIT DUE 1983

BANCO UNION, C.A.

(A Venezuelan Corporation)

In accordance with the provisions of the Indenture of Trust and Deposit Agreement between Banco Union, C.A., and Citibank, N.A. Trustee and Depositary, dated as of April 1, 1978, notice is hereby given that the rate of interest has been fixed at 11 1/16th% p.a., and that the interest payable on the relevant interest payment date, October 1, 1979, against Coupon No. 3 to the Bearer Certificate Receipt will be U.S.\$ 56.23 and has been computed on the actual number of days elapsed (183) divided by 360.

April 2, 1979
By: Citibank, N.A., London
Reference Agent

More oppose mining complex

BY JOHN LLOYD

OPPOSITION TO the National Coal Board's plans to develop a 10m tonne a year mining complex in the Vale of Belvoir in Leicestershire grew over the weekend as anti-development groups appealed to Nottinghamshire and Lincolnshire county councils to join Leicestershire in opposing the NCB's plans.

Mr. Chris Tizard of the Vale of Belvoir Protection Group said: "We are delighted with Leicestershire's firm and uncompromising statement to use all possible resources to oppose the NCB. We would now hope that neighbouring

county and district councils in Nottinghamshire and Lincolnshire will feel free to take similar action."

Last week, Leicestershire council adopted its chief planning officer's recommendation that the Belvoir pits should be opposed both because the NCB had not proved a need for the coal, and because the costs to be borne by the council, for the provision of extra houses, roads, educational and social facilities, would be high.

The anti-development groups have now collected about £25,000 for their defence

fund, to defray the costs of the inquiry to be held later this year. They have retained the services of Mr. Gerald Manners, a reader in Geography at London University who has developed a case against the NCB's general development plan, Plan for Coal, and will also hire mining consultants and geologists.

The NCB thus faces the local groups, the National Farmers Union and Leicestershire County Council, with the possibility of other county councils and other environmental groups declaring their opposition as well.

However, the board believes that recent events—including the crisis in Iran, the rise in the oil price and increased fears over nuclear safety—will sway public opinion its way.

It also believes that without new, highly mechanised colliery developments like Belvoir, and Selby in Yorkshire, it will be unable to approach its production target of 170m tonnes a year by the end of the century, and therefore, be unable to supply oil from coal and substitute natural gas as natural oil and gas supplies run out.

'Rising pound a threat to exports'

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

THE HIGH current value of sterling is Britain's biggest economic problem at present, according to a major new forecast from a group of Cambridge economists.

In the short-term, there should be a neutral budget, whatever the political circumstances, because apart from oil output the economy is moving into a mild recession and a tough budget would only make it worse.

These projections come from the Cambridge Econometrics which uses a forecasting model developed by the Cambridge Growth Project, a university team under the direction of Professor Sir Richard Stone and Dr. Terry Barker.

The model differs from many others because it is designed to project the development of 40 individual industries and the economy over a period of 10 years or more.

This is urged—in a pamphlet today from the Policy Studies Institute—with a view to using what limited freedom of action exists during a financial year to ensure that the resulting spending pattern is as near as pos-

sible to that desired.

The institute, an independent research body, commissioned a study on the management of public expenditure from Mr. Peter Else and Mr. Geoffrey Marshall of the University of Sheffield.

They argue that these regular reviews would allow account to be taken of priorities and the potential costs of a lower level of expenditure in real terms,

bright future for many of these sectors provided there is a managed depreciation of the pound.

Most sectors are expected to contract this year and grow faster in the 1980s than they have through the last decade.

Total output, as measured by Gross Domestic Product at 1975 prices, is expected to grow by 0.8 per cent this year following a 3 per cent rise in 1978. Indeed, excluding North Sea output and

investment, there may be a decline of 0.7 per cent, reflecting sector reductions.

Over the next few years the growth of total output is expected to range between 1.7 and 2.3 per cent year, mostly at the bottom end of the spectrum with a slightly faster expansion of real consumer spending.

Cambridge Economics, PO Box 114, 21, St. Andrew's Street, Cambridge CB2 3RW.

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decline of 0.7 per cent, reflecting

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Expenditure" by Peter Else and Geoffrey Marshall, price £3.50 from Policy Studies Institute, 12 Castle Lane, London SW1E 6DR.

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UK NEWS

Jill Johnson

U.S.
S.**Report may suggest further rises for top public servants**

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

EXTRA SALARY increases of between 5 and 10 per cent may be recommended for nationalised industry chairmen and other top public servants—who yesterday received rises ranging up to about 25 per cent.

The recommendation will be contained in one of three reports from official pay review bodies covering top salaries the armed forces and doctors and dentists. Its objective will be to bring pay rises which were assessed last April into line with subsequent increases in inflation and in the pay of comparable occupations in the private sector.

The recommendations will be especially embarrassing for the Government following the industrial unrest among civil servants covered by general pay negotiations.

It is likely that the review bodies for the armed forces and the doctors and dentists will be sent to the Prime Minister before the General Election. But the top salaries report may not arrive until later in May.

Yesterday's rises were paid to the chairmen and board members of nationalised industries and other top public servants in the Civil Service, armed forces and the judiciary following last year's report of the Boyle review body. The last big rise given to the nationalised industry chairmen and board members was in 1972.

The Government's official interpretation of a "top salary" was given as £40,000 a year in the Commons on Friday. In a written reply to a parliamentary question, Mr. Robert Sheldon, the Treasury Financial Secretary, said that a "typical top salary" was roughly eight times the average national wage. In 1976 the average top salary was £30,000, he added.

LABOUR**End national pay talks, says engineers' chief**

BY ALAN PINE, LABOUR CORRESPONDENT

THE POSSIBILITY of abandoning national wage negotiations in the engineering industry is suggested today by Mr. John Boyd, general secretary of the Amalgamated Union of Engineering Workers.

Mr. Boyd, writing in his union journal, says that when the AUEW's national committee meets later this month it must "surely give some thought" to bypassing the Engineering Employers Federation and continuing all negotiations on a factory or company basis.

National minimum rates are now negotiated with the EEF and local negotiations which determine actual earnings follow. The engineering unions are unhappy with a national offer made by the EEF last month—increases of up to 25 per cent on basic rates in reply to a claim for up to £20.

Mr. Boyd says in his article that employers have shown no desire to play in our modern fast-changing society other than

to try to keep wage rates at a really low level."

To suggest that a craftsman should have a basic rate of only £65 for a 40-hour week—the value of the employer's offer—"must force all of us to question the usefulness of any more national negotiations in the engineering industry."

Mr. Boyd launches a strong attack on the EEF, accusing the employers of being "oblivious to all that is happening around them, unresponsive to the challenge of change, blind to the wonderful new future which can be for engineering as we move further into the electronic and microprocessor age."

Both unions and employers in the engineering industry have until now valued the national agreement since it provides, in addition to minimum pay rates, common conditions throughout the industry. The unions now want manual workers' conditions of employment harmonised with those of white collar staff and the employers have offered a working party to consider this.

Briginshaw defends print union's financial moves

BY NICK GARNETT, LABOUR STAFF

LORD BRIGINSHAW, former general secretary of the National Society of Operative Printers, Graphical and Media Personnel (Natsopa), signed a statement yesterday defending financial policy decisions by the union during his leadership.

The union is seeking legal advice on whether to take civil proceedings to recover money that might be owed the union from property deals. Inquiries are also taking place into the operation of Swiss bank accounts and into companies set up through the union or by officers acting on their own authority.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Re-election of Tierney boosts union moderates

THE MODERATE leadership of Britain's sixth largest union, the Union of Shop Distributive and Allied Workers, appears to have received a vote of confidence with the announcement yesterday of the re-election of Mr. Syd Tierney, MP, as national president.

He had an 80,000 majority over his Left-wing challenger Mrs. Audrey Wise, MP.

At the same time the Left-wing candidate for the general secretaryship, the election for which is still taking place, has lost his seat as a member of the national executive. He is Mr. John Dilks, who was convincingly beaten by two successful moderate challengers.

In the presidential voting Mr. Tierney, MP for Birmingham

Tierney received 188,000 votes compared with Mrs. Wise's 106,000.

Wool chiefs seek supremo

Financial Times Reporter

A SUPREMO is to be appointed for the Yorkshire-based wool textile industry.

The post, which is being advertised at a salary of not less than £15,000 a year, is part of a re-organisation which this year has been industry hopes will help boost efficient to rob Sir Charles in changing trading conditions.

The new supremo, who will be concerned with the estimated £350m

of the steel company, in turn,

which is to be set up. He will be responsible for advising on policy and implementing the 1978-80.

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FT Monthly Survey of Business Opinion

GENERAL OUTLOOK

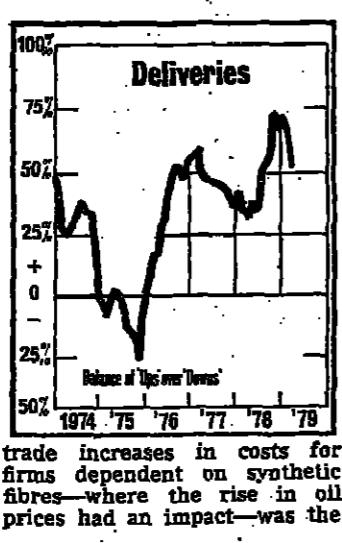
Optimism falls further

OPTIMISM over the general outlook for business continued to decline in last month's survey, and this was mirrored by a further drop in confidence over the prospects for the UK economy.

The March survey covered the building and construction sectors, as well as textile and clothing and the food and tobacco groups.

The decline in optimism over the last four months in the building sector was attributed mainly to industrial unrest and the bad weather. However, fears of recession, the world economic position and general uncertainty were cited as further factors.

In the textile and clothing



main factor contributing to loss of confidence.

One of the main complaints over the prospects for the economy was that the very unequal level of wage settlements might lead to further wage inflation, together with further industrial trouble before the end of the current wage round.

Export expectations also continued to fall. Companies in the food and tobacco and textile and clothing sectors were more inclined to see exports remain at the same level in the next 12 months, rather than higher as they had four months ago. Building and construction companies expected exports to decline.

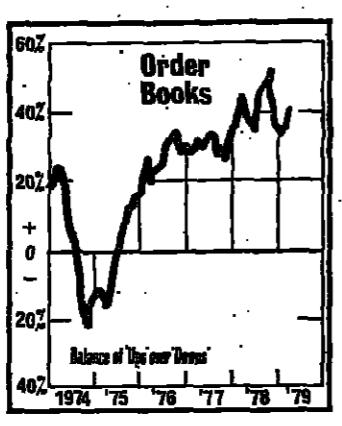
ORDERS AND OUTPUT

Drop in recent deliveries

WHILE recent deliveries have dropped in all three sectors, the picture on new orders and order books was not so gloomy. However, there was a slight fall in the median expected increase in turnover over the next 12 months—from an increase of 7.1 per cent to one of 7.0 per cent.

The main factor in the downturn in deliveries was the transport strike. However, the building sector had also been affected by the bad winter as well as cutbacks in public expenditure.

The weighted index for new orders showed no change—an improvement among construc-



tion companies being offset by a downturn in the textile and clothing sector. The survey warns, however, that in view of the pattern of the answers it is quite possible that the index may once again start to fall.

Companies in the food and tobacco sector were more inclined to expect order books to increase and as a result there was a small rise in the index. There has been a slightly greater tendency for companies to expect output or sales over the next 12 months to increase by less than 5 per cent. Nevertheless, this indicator remained relatively buoyant.

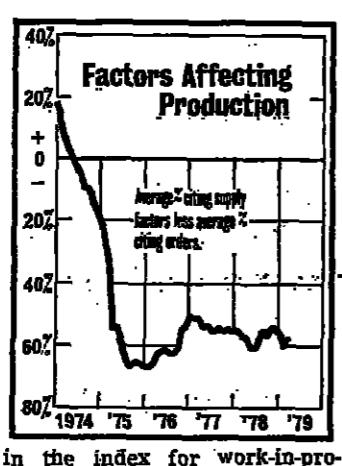
CAPACITY AND STOCKS

Working below plan

ALL THREE sectors were more inclined to say they were working at below capacity than they had been in November. This meant that the index measuring the extent to which companies were working at planned output levels or above—which had been rising—has now dropped back.

The sharp decline in the level of expected bought-in supplies in February has come to an end. Companies in the building and textile and clothing sectors were less inclined to expect stocks of all types to increase over the next 12 months, but food and tobacco companies were more inclined.

While there was a slight fall



in the index for work-in-progress, the other indices, cover-

ing the overall level of stocks and bought-in supplies, increased.

There was little change in the index covering the level of stocks in relation to current sales trends. While the building and textile and clothing sectors were more inclined to say levels were too high than they had been last November, this was counterbalanced by findings in the food and tobacco sector.

There was little change in the pattern of answers covering factors affecting production, although companies were less inclined to mention labour disputes, following the end of the transport dispute.

CAPACITY WORKING

	4 monthly moving total				March 1979			
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Constr.	Food & Textiles	Tobacco	Clothing
Above target capacity	%	%	%	%	%	%	%	%
Planned output								
Below target capacity								
No answer								

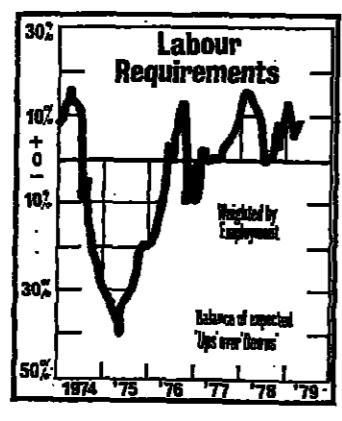
INVESTMENT AND LABOUR

Better job prospects

THERE WAS a slight increase in the index for labour requirements. However, the survey warns that much of the increase derived from the weighting pattern of answers and should therefore be treated with caution.

Companies in the building and textile and clothing sectors were more inclined to mention employment legislation, plans to increase productivity and uncertainty about the future as factors discouraging them from increasing employment levels.

Both the building and food and tobacco sectors were more



inclined to say that their capital expenditure would increase over the next 12 months in volume terms. As a result this index, which had been falling, has started to rise.

Weighted by capital expenditure, the balance of companies expecting an increase in investment over the next year over those expecting a decline rose from 38 per cent to 42 per cent.

At the same time all three sectors were more inclined to say they would require outside finance for capital expenditure in the next year than they had been in November.

COST AND PROFIT MARGINS

Wages move up

COMPANIES' expectations of wage costs continued to move slowly upward, although the reverse pattern seems to be evident for total unit costs.

The median expected increase for wages over the next year

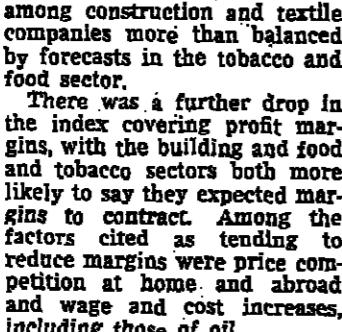
figure for unit costs fell from 11.1 to 10.4 per cent.

The pattern for expected price changes was similar to that for unit prices, with higher than previously expected rises among construction and textile companies more than balanced by forecasts in the tobacco and food sector.

There was a further drop in the index covering profit margins, with the building and food and tobacco sectors both more likely to say they expected margins to contract. Among the factors cited as tending to reduce margins were price competition at home and abroad and wage and cost increases, including those of oil.

These surveys, which are carried out for the Financial Times by the Taylor Nelson Group, are based upon extensive interviews with top executives. Three sectors and some 30 companies are covered in total every month. They are drawn from a sample based upon the FT-Aucturaries' Index, which accounts for about 60 per cent

moved up from 12.2 to 12.5 per cent between February and March, while the comparable

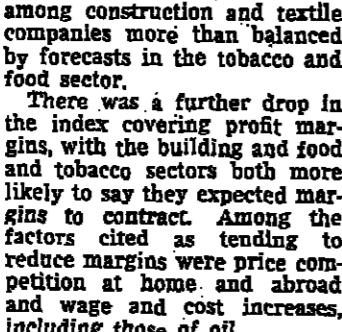


of all public companies. The all-industry figures are four-monthly moving totals covering some 120 companies in 11 industrial sectors (mechanical engineering is surveyed every second month).

Complete tables can be purchased from Taylor Nelson and Associates.

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Financial Times

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GENERAL BUSINESS SITUATION

Are you more or less optimistic about your company's prospects than you were four months ago?	4 monthly moving total				March 1979			
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Constr.	Food & Textiles	Tobacco	Clothing
More optimistic	31	31	25	34	9	37	3	
Neutral	35	43	55	51	32	37	36	
Less optimistic	34	26	20	15	59	26	61	

EXPORT PROSPECTS (Weighted by exports)

Over the next 12 months exports will be:	4 monthly moving total				March 1979			
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Constr.	Food & Textiles	Tobacco	Clothing
Higher	61	67	71	79	46	31	33	
Same	30	22	21	16	14	69	50	
Lower	9	10	6	3	38	—	17	
Don't know	—	1	2	2	2	—	—	

NEW ORDERS

The trend of new orders in the last 4 months was:	4 monthly moving total				March 1979			
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Constr.	Food & Textiles	Tobacco	Clothing
Up	50	49	54	53	35	56	39	
Same	14	16	11	13	27	—	51	
Down	15	14	12	10	14	26	8	
No answer	21	21	23	24	18	2		

PRODUCTION/SALES TURNOVER

Those expecting production/sales turnover in the next 12 months to:	4 monthly moving total				March 1979			
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Constr.	Food & Textiles	Tobacco	Clothing
Rise over 20%	6	3	4	—	—	17	—	
Rise 15-19%	8	11	10	—	—	6	—	
Rise 10-14%	19	15	10	5	21	15	—	
Rise 5-9%	21	21	23	38	9	24	—	
About the same	36	31	32	53	53	53	53	
Fall 5-9%	1	1	—	—	—	—		

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Tel. Bidford-on-Avon
3721 (20 lines)
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Building and Civil Engineering

Over £10m worth for Crown House

FORMED TO handle overseas interests for the Group, Crown House Engineering International has won contracts in the Middle East valued at £10.25m.

Four contracts in Egypt have been awarded by the Arab Organisation for Industry. With main contractor, John Laing International, in a £4.5m contract, the company will supply and install the air-conditioning and electrical work, plumbing, fire protection, compressed air services and craneage, for a factory project at Helwan, Cairo. Parsons Brown is the consulting engineer for the work which

starts in May with completion due in a year's time.

Also at Helwan, with Cementation International as main contractor, plumbing, electrical and air-conditioning services will be installed at an office complex. Work on this project (valued at £780,000) starts next month with completion in April next year.

A £3m contract at a factory project at Heliopolis, Cairo, also involves the supply and installation of air-conditioning, plumbing, fire protection and compressed air services. Work on the £1m contract started in January.

In Saudi Arabia, Crown House Engineering International is main contractor. Vincent Gorbini and Partners is the architect, Parsons Brown is the consulting engineer for the work which

starts in May with completion due in a year's time.

Hassan Mohammed Alali, Sons of Cairo is main contractor on another factory project at Heliopolis. Vincent Gorbini and Partners is the architect, Watkins Hart and Payne, the consulting engineer on the contract for electrical, air-conditioning and plumbing services. Work on the £1m contract started in January.

In Saudi Arabia, Crown House Engineering International will work for Saudi Arabian Monetary Agency as consulting engineer on its Bank's headquarters at Watkins Hart and Payne. This £1.7m contract started in February and complies for supplying and installing air-conditioning, electrical, plumbing and fire protection services, including the installation of a data log system, and conduit tubing, etc., for the security system.

Main contractor at Dammam is Cementation Saudi Arabia. Brown Dallas Associates is the architect, with Orsi and Koerner the consulting engineer and Hardy Hobbs and Associates the chartered quantity surveyor. They are all from Rome. Work starts very soon and completion should be in January 1981.

Work at power station

WEST COUNTRY subsidiary of the Mowlem Group, E. Thomas and Co., has won a £2m CEGB contract for civil engineering work at Hinkley Point A power station, Bridgwater, Somerset.

Work involves the construction of two three-storey steel framed buildings each containing a heavy reinforced vault for the storage of magnox fuel after its removal from the reactor.

Each vault will be about 31.8 foot square, 39.4 foot high, and partly underground. Both buildings will be about 52.5 foot high.

Other work includes installing complex mechanical and electrical services and plant.

Work is due to start shortly and should be completed in the autumn of 1980.

Kent hotel extension

EXTENSION OF THE Great Danes Hotel at Hollingbourne, Kent, is to be undertaken for Rank Hotels by Sir Robert McAlpine and Sons. Value of the contract is nearly £1m.

Main task will be to add another 51 bedrooms in a three-storey block. Work is about to start and is due for completion in early 1980. Architects are Peter Eddie and Partners and quantity surveyors, the Watkins Pool Partnership.

Awards to C. Bryant

A CONTRACT to modernise 250 houses in Acocks Green, Birmingham, has been awarded by the City of Birmingham Housing Authority to C. Bryant and Son.

Bryant is also to erect a multi-storey car park for Redditch Development Corporation as part of a town centre scheme. This is worth £1.5m.

Another award, from Delta Tubes, covers reconstruction of two factories—one at the company's island site in Heath Street, South, Birmingham (£125,000), the other in Eye (£462,000), the other in Eye.

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Industrial buildings

LAUNCHED BY THE Airtost Group of Tunbridge Wells is a new industrial building design system called Airtost 80, said to be particularly suitable for warehouse and factory projects, offering total versatility in design possibilities.

Major feature is the variable gutter location which, when positioned in the elevation, will act as a brick restraint, a lintel over windows or doors, and will

also serve as an inherent structural member.

A curved eave course has been introduced at the additional gutter level. This fits the wide range of colour claddings available, say the company, enables the achievement of a high degree of insulation acceptance.

The columns are said to provide from a minimum of four hours to four hours of resistance.

THE CANTERBURY Building Division of Wiltshires has been awarded contracts worth nearly £500,000.

Work has started on a £25,000 extension and renovation of Ledge Point at Westgate on Sea, Kent, for the Post Office Fellowship of Remembrance. Young and Purves are the architects for this project which calls for the provision of new bar facilities, a general amenity area, decoration of the rooms and the installation of a new heating system.

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THE CANTERBURY Building Division

Financial Times Monday April 2 1979

Quarterly analysis of bank advances

to UK residents by banks in the UK at February 21, 1979; as Table 4 in the Bank of England Quarterly Bulletin.

	Total	In sterling	In foreign currencies	Total financial	of which	Financial	Non-purchase	Property	Other
								companies	financial
London clearing banks	18,625	17,039	1,587	2,063	1,615	149	785	1,132	
Scottish clearing banks	19,007	18,226	1,571	2,026	1,601	157	792	1,077	
Northern Ireland banks	2,529	2,215	314	263	154	38	62	168	
All banks	38,155	32,859	2,287	302	267	160	37	75	156
of which in sterling	34,052	31,393	2,184	22	22	20	3	13	5
Changes:									
in sterling	36,225	35,382	2,350	3,382	1,263	2,207	1,548	4,861	
in foreign currencies adjusted for exchange rate effects	+1,020	+114	+18	-58	+154				
1978 Aug./Nov. Nov. 78/Feb. 79	+2,173	+162	+111	+10	+42				
1978 Aug./Nov. Nov. 78/Feb. 79	+266	+28	-26	-17	+72				
1978 Feb. 21	+100	+27	-1	+1	+27				
Total									
London clearing banks	4,890	4,578	729	524	362	408	402	208	805
Scottish clearing banks	5,044	5,094	726	554	323	444	1,242	359	934
Northern Ireland banks	597	566	113	52	24	29	101	9	76
All banks	606	576	108	52	23	32	100	14	78
of which in sterling	111	110	26	—	—	39	—	20	25
Changes:									
in sterling	114	113	24	—	—	39	—	23	28
in foreign currencies adjusted for exchange rate effects	+111	+219	+7	+20	+62	+89	+10	+7	
1978 Aug./Nov. Nov. 78/Feb. 79	+845	+96	+57	+53	+93	+219	+3	+43	+203
1978 Aug./Nov. Nov. 78/Feb. 79	+63	-31	+11	-1	+9	+66	+19	+11	+9
1978 Feb. 21	+94	+24	+17	+16	+6	-17	-2	-9	+59
Total other production									
London clearing banks	2,575	2,524	1,401	155	1,023	3,915	3,912	1,234	2,681
Scottish clearing banks	2,695	2,604	1,384	156	1,038	4,075	4,074	1,270	2,808
Northern Ireland banks	515	455	347	72	96	417	417	118	300
All banks	540	481	378	63	100	413	415	114	301
of which in sterling	159	159	111	4	43	138	138	33	105
Changes:									
in sterling	173	173	121	4	47	147	147	33	115
in foreign currencies adjusted for exchange rate effects	+163	+113	+191	+37	+7	+20	+16	+62	+9
1978 Aug./Nov. Nov. 78/Feb. 79	+130	+37	+23	+72	+180	+219	+3	+43	+77
1978 Aug./Nov. Nov. 78/Feb. 79	-12	+3	-32	-4	—	—	—	—	—
1978 Feb. 21	-32	+3	-32	-4	—	—	—	—	—
Total other production									
London clearing banks	9,825	7,781	1,645	1,781	521	717	1,675	541	786
Scottish clearing banks	10,086	8,723	1,770	1,845	513	742	1,725	573	812
Northern Ireland banks	10,555	8,421	1,781	1,932	545	722	1,823	547	853
All banks	10,649	8,458	1,765	2,104	552	811	1,911	621	857
of which in sterling	9,174	8,149	2,160	2,050	552	811	1,911	621	857
Changes:									
in sterling	-367	+25	+92	+38	+135	-14	+89	+16	
in foreign currencies adjusted for exchange rate effects	+188	+11	+11	+4	+4	+7	+73	+49	
1978 Aug./Nov. Nov. 78/Feb. 79	+855	+113	-23	+99	+32	+116	+518		
1978 Feb. 21	-367	+25	+92	+38	+135	-14	+89	+16	
Total other production									
London clearing banks	5,173	4,370	410	704	66	1,124	971	1,897	
Scottish clearing banks	5,652	4,863	465	637	77	1,143	1,051	2,278	
Northern Ireland banks	732	623	97	81	35	112	114	294	
All banks	760	656	96	91	36	113	120	304	
of which in sterling	205	205	—	24	6	76	29	58	
Changes:									
in sterling	215	215	—	21	8	76	28	66	
in foreign currencies adjusted for exchange rate effects	+367	+25	+92	+38	+135	-14	+89	+16	
1978 Aug./Nov. Nov. 78/Feb. 79	+855	+113	-23	+99	+32	+116	+518		
1978 Feb. 21	-367	+25	+92	+38	+135	-14	+89	+16	
Total other production									
London clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Scottish clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Northern Ireland banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
All banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
of which in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Changes:									
in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
in foreign currencies adjusted for exchange rate effects	+367	+25	+92	+38	+135	-14	+89	+16	
1978 Aug./Nov. Nov. 78/Feb. 79	+855	+113	-23	+99	+32	+116	+518		
1978 Feb. 21	-367	+25	+92	+38	+135	-14	+89	+16	
Total other production									
London clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Scottish clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Northern Ireland banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
All banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
of which in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Changes:									
in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
in foreign currencies adjusted for exchange rate effects	+367	+25	+92	+38	+135	-14	+89	+16	
1978 Aug./Nov. Nov. 78/Feb. 79	+855	+113	-23	+99	+32	+116	+518		
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Total other production									
London clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Scottish clearing banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Northern Ireland banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
All banks	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
of which in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
Changes:									
in sterling	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674	1,674
in foreign currencies adjusted for exchange rate effects	+367	+25	+92	+38	+135	-14	+89	+16	
1978 Aug./Nov. Nov. 78/Feb. 79	+85								

THE MANAGEMENT PAGE



Claes-Ulf Winberg (left)—concentrating his mind on getting the right diversification mix; a spent acid plant (centre) and the RBS 70 laser-guided anti-aircraft missile gun illustrate Bofors' expansion into chemicals and its continuing commitment to armaments.



WHAT DOES A WORLD-RENNED arms manufacturer based in a neutral country do, when its domestic market threatens to shrink and public opinion strongly favours disarmament and curbs on trading in weapons? Exploit its technological know-how in less controversial fields and diversify quickly, is the obvious response.

But Bofors has been in and out of "civil" production for the past century or so and in the view of Claes-Ulf Winberg, managing director of the Swedish armaments group, diversification is the only answer. Since he took over in 1972 he has eliminated some 20 product groups from the company's range—including some of its steel interests—but he feels that Bofors is still too diversified.

It does not pay, he argues in contradiction of much previous Bofors' thinking, to move into products which the company's workshops have no experience of manufacturing and which call for a widely different marketing and financing approach. This philosophy is born of experience. The ordnance division has continued to be the main source of Bofors' profits, whereas several attempts at diversification have not turned out well.

Bofors' strength has lain in its engineering and technical skills. It has been orientated to product development rather than to marketing. Its main customers have been governments and defence procurement departments and it has not been geared to meet the demands of a variegated industrial market.

The policy evolved by Mr. Winberg therefore, has been to develop profitable, new operations out of the group's existing skills aimed at a product market of which it already has experience. This is why Bofors has decided to concentrate on chemicals as a second pillar alongside its ordnance activities and is tackling the U.S. market.

Bofors Nobel, the chamber's plastics division under a young general manager, Per-

Dangerous

Parallel with its explosives production Bofors has specialised in nitration and nitric acid oxidation processes. More recently, to meet new pollution and environmental requirements, it has had to develop techniques for handling the "spent acids" left by the processes.

As a result it is now able to take over for other companies the processing of their raw materials and the handling of dangerous wastes, which is often a costly and embarrassing overhead for them.

Pharmaceutical companies, in particular, want to put their money into research and development and into marketing. For an individual company the nitration processing of its chemicals is a small volume but difficult operation with potential pollution problems. Bofors Nobel offers to produce these chemicals at its specialised plants, saving its customers the investment and the pollution headache.

Already the division sells 50 per cent of its chemicals abroad, its largest markets being in West Germany and the UK. But the greatest potential lies in the U.S. and, at a later stage, possibly the U.S. market.

Bofors Nobel, the chamber's

iby in Japan. In Europe transport overheads are not a problem because the business is in specialised, not bulk, chemicals, but to tap the U.S. market Bofors Nobel acquired a small company, Lakeway Chemicals Inc., Michigan, in October 1977. It is now in the process of extending its technology to Lakeway. A spent acid plant will come on stream in the autumn and a new nitration plant should provide extra capacity next year. The possibility of buying up another American company is being evaluated. Mr. Norberg hopes to get U.S. sales up to Skr 150m by 1981 and anticipates a 10 per cent annual volume growth thereafter.

The Swedish-based Nobel Kemi remains the largest unit in Bofors Nobel with 40 per cent of its contracts still coming from military customers. A third unit, Nobel Chematur, which has been operating since the 1930s as a chemical engineering contractor, mostly in designing explosives factories, can also benefit from the division's new venture.

The decision to expand on the chemicals side was taken in 1976, when a three-year Skr 200m programme was adopted. It is almost complete. Half or more of the investment has gone into environmental improvements and another large chunk into renovating the existing plant at Karlskoga, so that it is only now that the real expansion of capacity is coming through.

Bofors Nobel is not yet generating enough profit to finance its own investments but Mr.

Norberg's target is to contribute to group cash flow by 1982. His fourth operation, plastics, could provide problems. The odd one out, it does not share the basic technology of the other three units, producing plastic components for cars, trucks and caravans on the civilian side and missile tubes on the defence equipment side. After taking over the plastics operation of the Trelleborg company last year, Bofors currently has con-

tinued losses sustained by the steel and engineering operations. The advance payments made under the armaments contracts are also the main source of the good financial income which boosts the pre-tax result.

The uncertainty shrouding the future on the arms side makes it all the more imperative for the management to pare away its cash-consuming operations. The profit criterion is

BY WILLIAM DULLFORCE

siderable overcapacity in plastics and some rationalisation is needed.

While chemicals are regarded as having the greatest growth potential, more than three-quarters of the group's Skr 2.5bn (E320m, \$645m) turnover is still being generated by the ordnance, steel and other engineering operations. Bofors is in no mood to abandon the profits of its weapons manufacturing and attitudes towards the future of the ordnance division by the chemicals division, Bofors' reliance on defence contracts is proportionately rather larger. Roughly half the group's 14,000 employees work on military contracts. At Karlskoga some 5,500 of the 8,500 employees are directly or indirectly involved in weapons and ammunition production.

Mr. Winberg believes that the ordnance division has probably reached its maximum size. The cuts in Swedish defence spending already foreshadowed mean that, to maintain the present volume of production, more export contracts will have to be won. Over the last two years about 55 per cent of Bofors' weapons and ammunition output has gone to the Swedish

defence forces. That proportion will gradually be reduced, possibly by as much as half.

The prospects for increasing export sales, it is felt in Karlskoga, depends more on political attitudes than on having the right products. Recently the foreign affairs committee of the Swedish Parliament voted unanimously for a re-examination of the regulations governing Swedish weapons exports.

The government has also set up a commission to investigate the opportunities for the armaments industry to switch to "alternative" production. "Forget it," Mr. Winberg says bluntly, "there is no alternative."

Bofors makes guns and missiles to Swedish specifications which ensure that they are fundamentally defensive in nature. This "lock on the door" attitude to defence attracts countries which share Sweden's neutral strategy, and developing countries, whose governments feel the need for a current defence.

Foreign demand for Bofors' weapons is undoubtedly strong, but the politics of Swedish arms exports are complex in the extreme. Bofors sells to NATO countries. Its power-operated L/70 20mm gun, the successor to the one which defended Britain in the second world war, is the main anti-aircraft weapon in many countries' defence. The third generation steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

Although in the 1870s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its steel and armaments sides. In steel it has had two main operations, the production of high-alloy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been effectively dropped from the beginning of this year under an

agreement with the Uddeholm company.

Bofors' Skr 400m plan for the erection of a new drop forging plant at its Kilstaviken works in a joint venture with Sumitomo, which would have attracted foreign attention.

Swedish politicians have to balance ideals and attitudes to world disarmament against the tradition that the country's own defence forces should not rely solely on foreign suppliers and the knowledge that domestically produced weapons are cheaper, if manufactured in larger series than required by the Swedish forces. In practice Swedish authorities have been fairly pragmatic and Bofors has not been deterred from planning its export drive.

But the Government and the Defence Procurement Organisation have been keen recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Bofors Missile Corporation for joint design, development and production of the next missile generation.

Military

If Mr. Winberg has to adjust to the political wind for the half of the group involved with military contracts, he is able to take straightforward business decisions in the other half. The steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

After all the twists and diversifications of the intervening years the Bofors which Mr. Winberg is taking into the 1980s remains fundamentally that of Alfred Nobel, an armaments and chemicals concern. The cobbler has found it best to stick to his last.



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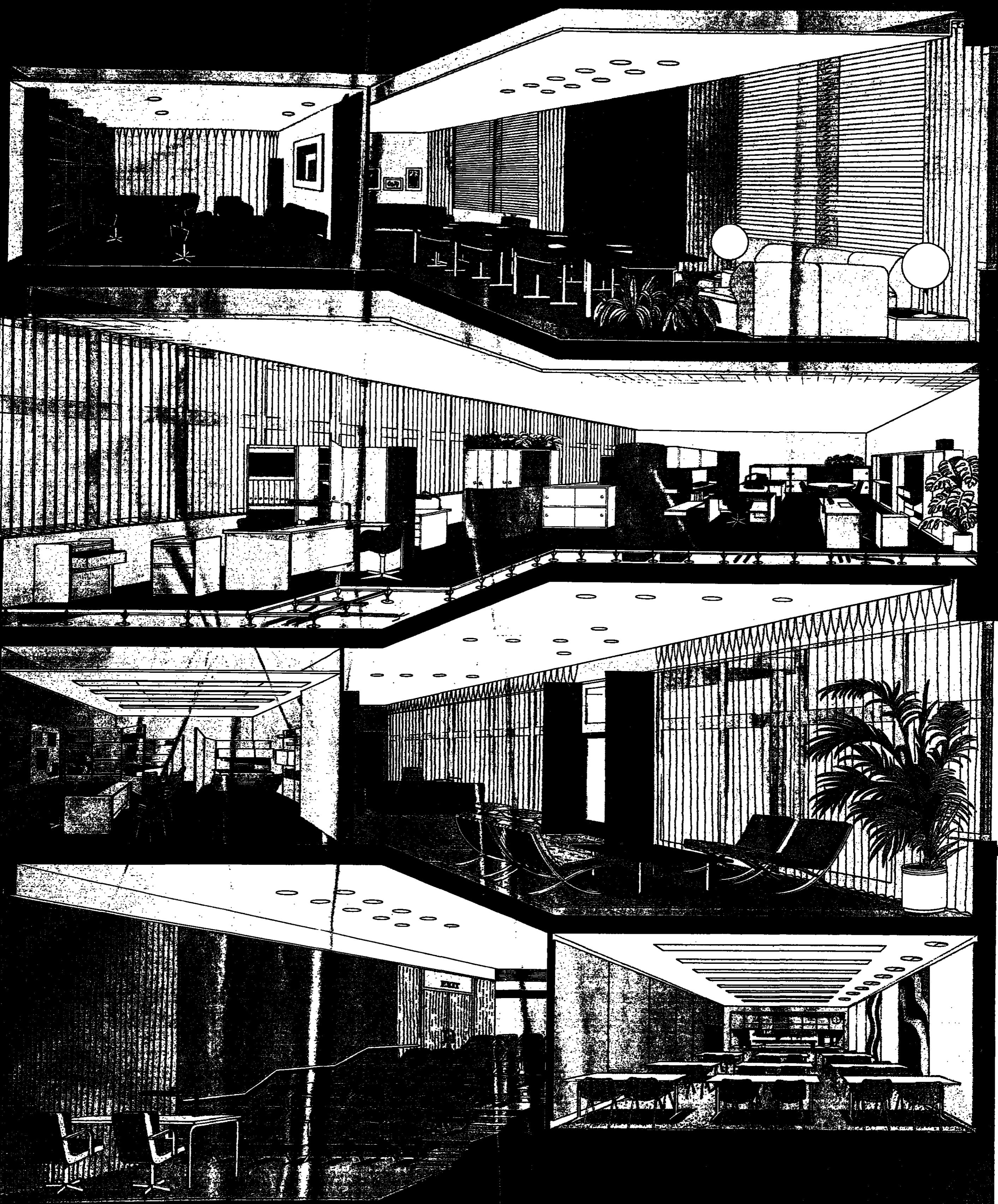
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LOMBARD

Case for a new wage formula

BY SAMUEL BRITTON

THE CASE for indexation to minimise the damage caused by high, variable and uncertain rates of inflation — and also as a useful accompaniment to more fundamental policies designed to bring the rates down — has frequently been made in these columns. But unlike peace, indexation is divisible.

The strongest case is on the fiscal side. This is simply to prevent governments from surreptitiously as a result of the automatic effects of inflation (fiscal drag) or changing the degree of progression, or shifting the burden between direct and indirect taxes.

Business

The case for wage indexation is a little more problematic because it is more open to abuse. One unfortunate example was the Heath thresholds which contributed to the wage explosion of 1974-75. Every time one goes to Italy one hears of the scala mobile, which adds cost of living compensation to normal wage settlements and is regarded by the IMF and other analysts as one of the main obstacles to financial stability.

These are arguments, however, against the wrong sort of wage indexation at the wrong time.

A plausible formula has been put forward by Richard Layard of the London School of Economics in his Colston Research Society annual lecture given last week. His basic argument is that the search for consensus in relatively adjustments is doomed to failure, but that some progress would be made by a formula which ensured at least rough stability, so that the value of a settlement did not depend on guesswork about the size of later settlements, or on the overall inflation rate.

The principle is that a new settlement should give a worker a real wage equal to the average level of his earnings over the last 12 months; allowing, in other words, for half the annual inflation rate. From then on wages would be adjusted month by month in line with the retail price index. This would have the subsidiary advantage that after 18 months a worker's real wage, and his place in the pecking order, would be independent of his settlement date.

Layard's proposal requires elaboration. His formula can

be used to provide a basic scale. But it is not possible to guarantee real wages for everyone all the time. All that true indexation can do is to provide a measuring rod which would allow negotiations to take place in real terms, so that the two sides did not have to guess about the general rate of inflation as well as conditions in their own industry. (There is analogy here to a dated indexed security, which might sometimes yield a negative real rate of return.)

There would thus have to be provisions for percentage additions or subtractions to the scale. For instance, when there is an income, of the kind that occurred after the oil price explosion in the mid-1970s, there would have to be a percentage deduction from the scale.

Opinion

It should be possible to write into contracts provisions for referring to outside economic bodies, not necessarily governmental, for an opinion on whether conditions had arisen requiring a change in the basic scale. But once the cost of living adjustments had been taken care of the effects of inflation, the further percentage changes designed to reduce or increase real wages could be very small.

Richard Layard presents this proposal as a form of incomes policy. This is in my view, the worst way to launch it. Then it would have all the disadvantages of a norm; and every deviation from the scale would have to be negotiated in Downing Street. Wage settlements would once more seem a gift from the Government, rather than something that negotiators settled among themselves. Above all, the requirement is for individual experiment rather than a completely uniform approach.

Indeed, all that the Government needs to do is to stop discouraging indexed agreements, as it has been doing during the pay policy period. Naturally, employers are reluctant to offer cost of living compensation on top of a national norm, with some wage drift thrown in for good measure. But without a norm and with some independent agreed procedure for adjustments in mid-contracts, different forms of indexation could develop a life of their own. The more the Government stays out of it, the better.

LEGISLATION giving tenants and their families protection against eviction from their family which would not require the court to predicate the same awkward problems for the two old cronies of the same courts. Two decisions recently in the Court of Appeal, following, distinguishing or commenting on (not always in a complimentary way) a chain of decisions over the years, is bound for the House of Lords. The problem is in essence very simple: who constitutes a member of the tenant's "family"? Or even simpler, what did Parliament mean by the use of the word "family" in a succession of Rent Acts?

The problem arises whenever a tenant protected by the Rent Acts dies. The law, ever since the first statutory intervention into leasehold premises during the First World War, has decreed that a member of the tenant's family was entitled to succeed to the protected tenancy. Until recent years the cases in the courts produced simple solutions. A member of the tenant's family had to be someone who was in a publicly recognisable family relationship, such as that provided by blood, marriage or adoption. Platonic relationships, however close and devoted, were insufficient to establish a familial nexus.

Lord Justice Asquith in 1950 the matter in an outmoded judicial language. He could see nothing in principle on which it could be said that a man and

woman who were not married and could be members of the same family which would not require the court to predicate the same awkward problems for the two old cronies of the same courts.

"If, on the other hand, the relationship involves sexual relations, it seems to me," he said, "anomalous that a person can acquire a 'status of irremovability' by living or having lived in sin, even if the liaison has not been a mere casual encounter but protracted in time and conclusive in character."

To say of two people masquerading as husband and wife (there being no children to complicate the picture) that they were members of the same family, seems to me to be an abuse of the English language."

Three years ago, the Court of Appeal faced the formidable opposition of such judicial attitude to change social habits. A man lived with a woman as if she were his wife for 21 years until he died. They never married and had no children. After his death she remained in the house and paid the rent as if she were his widow. The landlord discovered the true relationship and sought possession of the house.

Two members of the Court wriggled out of the earlier precedent by saying that what constituted the family in 1950 did not necessarily bind them in

1975, and that if the popular meaning of the word had changed the courts could give effect to that change. Lord Denning simply said that the earlier decision was wrong and declined to follow it.

The majority's approach was to ask the question, what would the answer be to the question, who is the "member of the majority thought that it would

by virtue of the marriage ceremony."

The

burning question for a

Judge was: could effect be given

to this changed social attitude,

and consequent change in the

scope of a common English

word, without doing violence to

the doctrine of judicial preced-

ence? The two judges in the

majority thought that it would

be virtually impossible to adhere to

the understanding of the

ordinary man. It was undeniable

that a social revolution had

taken place in the last 25 years

in the attitude to illicit unions.

More and more couples are declining today to go through a ceremony of marriage but still live together, which for all intents and purposes has the hallmarks of the matrimonial state.

Any social stigma that did attach to such unions has lessened, if not altogether disappeared. The inaccurate, but traditionally expressive phrase "common law wife" or "husband" is used to describe these relationships. The ordinary man, if asked, would find such unions indistinguishable from the unions made licit solely

on the other.

When she became ill he

nursed her as a husband would

be expected to do. At no time

did she pretend that she was a

married woman by using his

name or by giving any hint to

any person that they were a

married couple.

The county court judge, hav-

ing concluded that she had not

married because she wanted to

retain her independence and

freedom to withdraw from

the relationship without the

awkwardness of having to untie

the matrimonial knot, held that

the relationship was not so per-

manent and stable as to permit

the view that they were mem-

bers of a single family. And the

Court of Appeal declined to

say that they were members of

the same family.

There is a strong suggestion

in the judgments that, apart

from blood ties, the only other

relationships established by law,

namely marriage and adoption

can qualify. Our law does not

recognise any adoption of adult

only of children. One the rela-

tionship is other than a legal

one or by blood, it becomes im-

possible even to exclude the

mythical "two old cronies shar-

ing a house".

If the family encompasses

members of it who are related

in a social and not merely a legal

sense, then the homosexual

couple (male or lesbian) may

also qualify as a protected

tenant if and when the partner

dies. One way or another the

House of Lords is facing some

tricky problems of a socio-legal

nature. The result of its delibera-

tions will be intriguing in

more than one sense.

[1979] 1 WLR 3 and 15.

2 *Commons v Edwards* [1976] 2 KB 328.

3 *Dyson Holdings Ltd v Fox* [1976] Q.B. 503.

Sorting out tenants' families and Rent Acts

THE WEEK IN THE COURTS

BY JUSTINIAN

1975, and that if the popular meaning of the word had changed the courts could give effect to that change. Lord Denning simply said that the earlier decision was wrong and declined to follow it.

The majority's approach was to ask the question, what would the answer be to the question, who is the "member of the

majority thought that it would

be virtually impossible to adhere to

the understanding of the ordinary man.

It was undeniably that a social revolution had so radically altered. If language can change its meaning to

accord with changing social conditions, then a decision on the meaning of that word in a

statute before such change should not continue to govern thereafter.

In *Hebby v Rafferty*, the defendant lived with a woman (a well-known journalist) who was the statutory tenant, from 1972 until 1977 when she died tragically. They did not marry and had no children. They shared the expenses of their joint home, going out together in a way that showed that each of their lives was bound up with the other's.

When she became ill he nursed her as a husband would be expected to do. At no time did she pretend that she was a married woman by using his name or by giving any hint to any person that they were a married couple.

The county court judge, having concluded that she had not married because she wanted to retain her independence and freedom to withdraw from the relationship without the awkwardness of having to untie the matrimonial knot, held that the relationship was not so permanent and stable as to permit the view that they were members of the same family.

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nature. The result of its delibera-

tions will be intriguing in

more than one sense.

It distinguished the 1975 case by saying that the stability and permanence of the relationship was the key issue, that the trial judge and his conclusion could not be upset.

If that case is virtually distinguishable from the 1975 case the second case poses even more awkward questions, since the individuals could not even claim that their relationship simulated matrimony. In 1957 a young man aged 24 formed a relationship with a widow of 75, and a year thereafter lived with her in a flat of which she was the tenant. The widow paid the rent but other expenses were shared, neither being financially dependent on the other.

May Fair, 01-925 3256. *Evening Standard*, 01-836 4426. *Hollywood*, 01-836 5161. *A NIGHT IN THE UKULELE*, 01-836 5161. *MARX BROTHERS*, 01-836 5161. *MONKEY BUSINESS*, 01-836 5161. *Figaro*, 01-836 5161. *Carmen*, 01-836 5161. *WINDMILL*, Credit card bks, 01-836 5161. *MOLLY AND THE BIG BROTHER*, 01-836 5161. *AN INFORMAL HIGH-COMEDY*, 01-836 5161. *MARY O'Malley's AMISH-HIT COMEDY*, 01-836 5161. *VERY FUNNY*, 01-836 5161. *SURE-FIRE*, 01-836 5161. *ENTERTAINMENT</*

THE ARTS

JAPANESE

CAMDEN FESTIVAL

Round House

Don Quixote by RONALD CRICHTON

Paisiello's *Don Chisciotte*, a Neapolitan opera buffa of 1769 was re-worked over two centuries later by Hans Werner Henze for the summer festival at Montepulciano. The public square of a Tuscan hill-town is a more sympathetic place than the Round House and there the up-dating may have worked. In Phoenix Opera's staging for the Camden Festival last week—"it seems in these islands, and Lord! what prospects that calls up—the joke turns heavy and goes on for too long. That is a pity, for the music, or what one hears of it through the gumping, is attractive.

Paisiello turned out operas like ice-cream, but he was a good confectioner, not to be despised—his *Barber of Seville* can still be heard with pleasure in spite of Rossini. Henze seems to have worked on his original fairly freely, re-composing it for a chamber ensemble for the

main intrigue and an amateur wind-and-brass band for Quixote's major flights of fancy.

The Koenig ensemble, at the Round House at least, is poked away in holes in Ralph Koital's otherwise ingenious set, the big band. (Tom William Ellis School) is up in the balcony. The contrast is effective and the dove-tailing neatly done by the two conductors, Jan Lehman-Koenig (down) and Richard Hickman (up).

The small ensemble includes instruments. Paisiello never knew. With their aid Henze has contrived some entertaining accompaniments, though one or two of the percussion effects come round too often. Because the producer Tom Hawkes has chosen a knockabout, joky style with bawdy oaths uttered in the wincing way English opera singers use when they are trying to act like real comics, one has the uncomfortable feeling of missing good things from the half-submerged downstairs

Logan Hall

Janet Baker

by ELIZABETH FORBES

The Camden Festival drew to a triumphant close on Saturday night with a recital given by Janet Baker and Geoffrey Parsons at the Logan Hall. Rarely can artistry and dedication have been presented in such pure, intense form. Many singers treat an opening group of *arie ariette* merely as a means of warming up their own voices or of setting the audience's attention. Not so Dame Janet, who lavished all her interpretative skill on each and every item in the programme and from the first note of the first song—Caldara's "Selve amiche"—held her listeners in the vice-like grip of her own concentration. Martin's tenderly regretful "Plaisir d'amour" established a mood of sorrowful love that Pergolesi's "Ogni pena" further explored.

In the next group it was a particular pleasure to hear several Lieder by Mendelssohn sung without a trace of condescension. The piano playing of Geoffrey Parsons contributed greatly to the enjoyment of these accomplished if scarcely

intellectual settings. The elision of the accompaniment to "Nene, Liebe" brilliantly evoked Heine's poem while in the familiar and well-loved "Auf Flügeln des Gesanges"—also a setting of Heine—singer and pianist together achieved a simplicity and directness of utterance entirely free from false naivety. In "Nachlied" Dame Janet's exquisitely fine-spun line had the strength as well as the delicacy of silk. The more robust humours of "Herrchen" were expressed in appropriately full, resonant tone.

The second half of the programme began with "Poème du Jour". Faure's setting of Verlaine's "Recontre" Dame Janet had not wholly regained the total absorption that characterises her singing, but "Toujours" and "Adieu," the second and third songs in this miniature cycle, caught to perfection the elusive, bitter-sweet flavour of a love affair over almost before it has begun. Debussy's "Mandoline" displayed the splendid articulation, both vocal and pianistic, of

this rewarding partnership. With Lis' Air from the same composer's cantata *L'Enfant prodigue*, the feeling of passionate agony in the repeated cries of "Azad! Why did you leave me?" contrasted effectively with the gentler emotions of Mendelssohn and Faure.

Three songs by Delius included the beautiful "Twilight Fancies," whose legendary span had the strength as well as the delicacy of silk. The more robust humours of "Herrchen" were expressed in appropriately full, resonant tone.

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Fenton House

Joseph Payne

This somewhat surreal recital was entirely devoted to contemporary American harpsichord music and was given by a player who has won some favourable comments for his recordings of Bach's French Suites, now re-issued in this country.

On this occasion Mr. Payne seemed ill-ease, as well he might. His six pieces representative of a lively interest which American composers have shown in the bright, percussively-plucked possibilities of the harpsichord were all surely designed for a sophisticated reproduction instrument complete with foot pedals, automatic gear change, and overdrive (as irreverent practitioners are wont to call these helpful modern aids).

But at Fenton House Mr. Payne was faced with a lumbering 1770 Shudi Broadwood possessing a fine, true, two manuals and plenty of stop changes, but very hard to manage and by no means exactly in tune. Indeed Payne's own semi-improvisatory "Omphalos" was marked by a long silent ruse with a recalcitrant hand-stop which did not increase the piece's coherence. Most substantial was Daniel Pinkham's soberly winding "Partita," a serious piece of variation. Too much else was music pleasure-sanity. Norman Dello Joio's "Homage to Scoville" was shockingly flat, with a long silent ruse with a recalcitrant hand-stop which did not increase the piece's coherence. Most substantial was Daniel Pinkham's soberly winding "Partita," a serious piece of variation. Too much else was music pleasure-sanity. Norman Dello Joio's "Homage to Scoville" was shock-

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ingly flat, with a smoochy tone and squareness of rhythm that owed nothing to the 18th century and everything to Hollywood.

In an attempt to encourage drama (which, at the same time, is offering a similar prize for a play for a small touring company to perform).

The awards are open to anyone over the age of 15 who lives, works or studies in Greater London. Arts Association

is giving a similar prize for a play for a small touring company to perform).

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FINANCIAL TIMES

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Monday April 2 1979

Security is not enough

IT WOULD be impossible to prove, and it is in any case not very likely, that the present outbreak of attacks by the Provisional IRA and other related bodies would have been less vicious if British policy towards Ireland over the past year or so had been different. Acts such as the assassination of Mr. Algy Neave and the British Ambassador to The Hague, Sir Richard Sykes, appear to be those of people who are pursuing violence for its own sake and who are not open to any kind of political argument. They are to be utterly condemned.

Warnings

At the same time, however, it would be hard to maintain that British policy recently has been a conspicuous success. Mr. Roy Mason, the Secretary of State for Northern Ireland, deserves some credit for the way he helped to improve security and even to attract some economic investment to the province. Yet it has been clear for some months that the reduction in the level of violence has gone about as far as it can possibly go under present policies. Both police and army officers have been warning that the Provisional IRA had undergone a period of reorganisation and that it was preparing to strike more efficiently and at a geographically wider range of targets than in the past. In that sense, the events of the last few weeks are not entirely surprising.

There must also be some doubts about a policy which continues to pour money into Ulster without any economic justification. The Kilroot power station, which will produce enormous excess capacity, is one example. Another is the Dalmarnock car plant, which simply went to the bidder who was prepared to offer the highest public subsidy. The tightening of security as practised by Mr. Mason was disastrous in itself. There might also have been something more to be said for his policy of distributing financial largesse if it had been accompanied by a political dimension. All too plainly, it was not. British policy towards Ulster, especially in the last few months, has been characterised by an apparent readiness to lean towards the Unionists at the expense of the Catholics. The Bill to increase the number of Ulster MPs at

Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that the search for a political settlement that takes account of the Catholic community in Ulster should not be forgotten. After the killing of Mr. Neave security will again have to be tightened. But a security policy alone is not enough. There must also be a political objective. That will be a major task of the next British government by whichever party it is formed—even if it means going back to Sunningdale.

A temporary price freeze

AS WAS ONLY to be expected in the run-up to the general election, Mr. John Silkin, the British Minister of Agriculture, has been claiming a good deal of credit for the outcome of last week's farm price talks in Brussels. It is not clear, however, that the result was all that much of a triumph, either for Britain or for the Community at large.

It is true that Mr. Silkin argued, with admirable persistence, in favour of the Commission's proposal that there should be a general freeze of the "common" prices, but it would be an illusion to suppose that his arguments have won over his opponents in other member states. If in practice there will be a price freeze for at least three months, this is not because the Nine positively agreed, but only because they remained deadlocked, and had little option but to extend the current price regime.

Doggedness

The defeat of the British Government and the inescapable of the election campaign ruled out the convening of another farm ministers' Council in the near future, and the earliest date that negotiations can resume again will be the middle of May. Since no-one expected agreement to be reached at the first or even the second session of the new round, it seemed prudent to assume that current prices would have to remain in force until the end of June. Mr. Silkin by his doggedness, and the government by its defeat in the House of Commons, have certainly delayed any increase in the "common" price levels. But it would be premature to assume that the principle of a price freeze has made substantial headway in the Council of Ministers.

The other side of the coin, of course, is that the deadlock over prices also included a deadlock over the Commission's proposals for new taxes on milk production. These taxes cannot now be imposed, on the best hypothesis, until September.

It is a safe bet, therefore, that the milk surplus, which is already pre-eminent among the expensive scandals of the common agricultural policy, will become even larger and more expensive this year. Last year intervention buying of surplus milk cost the Community £2.3bn, and preliminary esti-

THE PENNSYLVANIA REACTOR ACCIDENT

A major setback to U.S. nuclear power

By David Lascelles in New York and David Buchan in Washington

AMERICA HAS gone through a tense weekend watching and waiting while engineers grappled with the country's worst nuclear accident to date—a crippled and leaking nuclear power station in Pennsylvania.

By yesterday, five days after the cooling system at the Three Mile Island plant in the Susquehanna River had failed and radioactive steam had spewed into the atmosphere, it was still not clear how the emergency would end. Pressure and temperature in the damaged reactor core were high. Nobody could get near because of escaped radiation. It will probably not be possible to approach it before tomorrow or Wednesday.

In these circumstances, it is understandable that the Catholic community in Ulster should have become more isolated and more alienated. That is not to say that there is much support for the Provisional IRA and its offshoots. Indeed it is striking that one of the most moving tributes to Mr. Neave came from Mr. Gerry Fitt, the sole representative at Westminster of the Social and Democratic Labour Party. But it is to say that there is a dangerous political vacuum in which support for the IRA could yet grow.

No government is more aware of this than that of the Irish Republic. For ultimately the IRA threat to Dublin is greater than it is to the British mainland. In Britain the violence can be almost certainly contained, though at a price, but in the Republic it is a potential threat to the very system. That is why Irish governments no longer seem to condone IRA activities. Their co-operation with the British authorities in security matters is now almost complete. There is also no longer any official demand for the withdrawal of British troops from Ulster.

Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that the search for a political settlement that takes account of the Catholic community in Ulster should not be forgotten. After the killing of Mr. Neave security will again have to be tightened. But a security policy alone is not enough. There must also be a political objective. That will be a major task of the next British government by whichever party it is formed—even if it means going back to Sunningdale.

It is the second nuclear story to reach the headlines in two weeks. In mid-March, five atomic power stations were shut down because of faulty design. Not surprisingly, shares of nuclear companies slumped on Wall Street at the end of last week.

The accident was triggered in the early hours of last Wednesday by a faulty pump and made worse by human error when an emergency cooling system was overheating the core for a time. Subsequently some of the water which had leaked on to the reactor floor was mistakenly piped to an auxiliary building which had no radiation filters. What was originally presented as a minor accident escalated in the next two days as complications developed with cooling, and radioactive steam escaped from the containment building.

With the prospects for domestic oil and gas production uncertain because of the high cost of exploration and the near

women and young children in the immediate area to leave and people within 10 miles of the power station to close their doors and windows. Schools within a five-mile radius were closed. By Saturday, thousands more had left the neighbouring towns, leaving them ghost-like and empty and prompting the authorities to declare a curfew to prevent looting.

President Jimmy Carter issued a statement urging Pennsylvania officials to "err on the side of safety and caution" and opened up a hot line from the site to the White House. Ironically, he was cloistered away preparing a major statement on energy policy for later this week. Public reaction at all levels was swift and sharp. Dozens of anti-nuclear protesters descended on the area with their banners and leaflets, and in Washington, Congressional leaders were outspoken in their criticism.

The Senate majority leader, Mr. Robert Byrd, said the accident had shattered people's faith in nuclear power. Senator Edward Kennedy wrote to Dr. James Schlesinger, the Energy Secretary (who was still valiantly defending the long-term safety record of nuclear power) that "it was more important to build these plants safely than to build them quickly." Senator Henry Jackson, Chairman of the Senate Energy Committee, perhaps the single most influential figure on energy policy and not an outright opponent of nuclear power, said the accident would hurt the nuclear programme and leave it in "semi-limbo."

Even if the emergency ends in the next few days, and the thousands of people who fled the area return safely to their homes, the incident is little short of a disaster for the cause of nuclear power. The case for it had just begun to regain momentum because of fuel shortages caused by the Iranian crisis. The repercussions of what happened at Three Mile Island may well spread to other countries engaged in the nuclear debate.

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With the prospects for domestic oil and gas production uncertain because of the high cost of exploration and the near

cooling liquid or gas fails to remove quickly enough the heat that is generated by nuclear reaction.

Britain has suffered two meltdowns in gas-cooled reactors. The first occurred at Windscale in 1957, when many tons of uranium fuel caught fire and burned furiously for 24 hours. In that case the reactor had no enveloping pressure vessel to help seal in the radioactivity. Radioactive vapours escaped from the plant, but radiation levels did not exceed the maximum permitted by international regulations.

The subsequent inquiry by the Medical Research Council concluded that it was "satisfactory that it is in the highest degree unlikely that any harm has been done to the health of anybody, whether a worker in the Windscale plant or a member of the general public."

The second melt-down occurred at the Chapelcross nuclear power station, in a 55 MW reactor. No radiation was released, although the reactor was seriously damaged. Unlike Windscale, the reactor was repaired and operating again a year later. Damage caused by a similar accident in a much bigger gas-cooled reactor in France in 1969 was also repaired.

The most dangerous substance likely to be released in any nuclear accident is radioactive iodine. More than 1,000 times as much was released in the Windscale accident as any other radioactive substance. A serious accident at a British nuclear plant would swiftly bring policemen to the doorsteps of those living nearby downwind of the plant, dispensing pills of a iodine compound. By taking these pills, people would saturate their bodies' needs for iodine and reduce the risk of their absorbing any radioactive iodine from the air.

The most obvious disadvantage seems to be that, should an accident occur, events happen more swiftly than with the UK designs, which allow hours instead of minutes for crucial decisions to be taken.

A melt down is the worst kind of accident which can happen to a nuclear reactor. It is the melting of the nuclear fuel when the

and power generated if the country is to keep going. How vulnerable the U.S. is to the vagaries of foreign oil suppliers was demonstrated by the recent shutting off of Iranian oil. In Congress, there had been moves to clear the way for more nuclear power in the form of Bills to speed up licensing and proposals to approve reactor designs on a standard rather than plant-by-plant basis.

All these shifts had yet to combine into a major pro-nuclear movement. But senior officials at the Department of Energy were saying at the beginning of March that they felt that anti-nuclear sentiment had lost some of its edge, and that the moment might soon be ripe for a major policy statement in favour of nuclear power.

At the moment, the U.S. has

exhaustion of many available fields, the burden will have to be borne by other fuels. Only coal and uranium offer any long-term prospects. Uranium has the advantage over coal that it is easier to mine and produces electricity more cheaply. On a cost scale where uranium is 15, coal is 20, and oil 40.

The nuclear engineering industry believes it could install enough nuclear power capacity by the end of this century to save about 18m barrels of oil a day, equivalent nearly to total present-day consumption. Given the go-ahead now, it says it would be able to produce the new generation of fast "breeder" reactors on a commercial basis early in the 21st century.

However, the environmental lobby combined with uneconomic circumstances had all but stalled nuclear power development by the end of last year. Since 1974, nearly 200 orders for nuclear power stations had been cancelled or postponed. Last year only two new orders were announced. Currently, 128 power stations are under construction or otherwise in the pipeline. They will be completed by the mid-1980s. Because of the long lead time, more orders will have to be placed very soon. The industry argues if the momentum is to be maintained. Not surprisingly the industry is concerned with the threat of recession and

unemployment once the orders on its books are completed and it has been mounting a powerful lobby in favour of more nuclear power.

However, the fate of nuclear power has always hinged on the question of safety. That is why the Three Mile Island incident will be so damaging, even though the only victims so far are four workers who have been treated for mild exposure to radiation. But the question has become so tangled in the heat of debate that few can view it unemotionally.

No nuclear deaths

Since nuclear power for peaceful purposes got underway after the last war, there has not been a single death in the U.S. from an accident at a nuclear power station. On average 200 coal miners are killed each year, and at least one person a year dies from gas leaks in New York where more explosive power runs through the mains in a day than was contained in the Hiroshima bomb.

U.S. nuclear insurers have paid out less than \$1m in claims since 1957, the year such insurance started. But as a close observer of the debate remarked: "for most people nuclear risks are still in

the realm of witchcraft." This was borne out by a recent finding by the Roper Organisation, a public opinion research company, that 48 per cent of the population did not understand what nuclear power was all about. Given that people are reluctant to confess to ignorance, that result is held to under-represent the extent of existing ignorance.

But if the public is confused, the likely effect of Three Mile Island is clearer on Congress, in whose hands the future of nuclear power probably lies. Senator Jackson and his energy committee had been working towards greater acceptance of the need for nuclear energy. In fact the debate among its members assumed that nuclear power would go ahead and concentrate more on details such as how spent fuel should be transported and whether fast breeders should be cooled by gas or sodium.

Doubts on new initiative

However, judging by the immediate reaction of Congressmen to the accident, any pro-nuclear initiative now must be under a cloud. There has been a succession of calls from Capitol Hill for closer monitoring and control of the nuclear power industry and suggestions that the burden of future energy development must be shifted from nuclear power to coal.

The Chairman of the Senate sub-committee on nuclear regulation, Mr. Gary Hart, who visited the stricken reactor with his staff last week, said he would introduce legislation requiring the federal Government to monitor reactors and assume full control immediately in the event of a crisis.

At Three Mile Island, the Pennsylvania State authorities, the plant management and the Nuclear Regulatory Commission, a federal agency, have all been involved at times cutting across each other.

Representative Morris Udall has called his House Energy and Environment sub-committee into session to take testimony from the nuclear regulatory commission—whose own role is bound to come under scrutiny because of the crisis.

Mr. Carter, who has never been an enthusiastic supporter of nuclear power, may elaborate his own position on the subject in his energy statement this week. So far, he has only said that the accident points to the need to review safety standards and procedure which itself could take years.

It therefore seems that unless the Three Mile Island emergency can be resolved quickly—which seems unlikely—and also safely, the cause of nuclear power will have been set back by very many years—with possible grave consequences to U.S. energy policy for the rest of the century.

MEN AND MATTERS

The timing of a political novel

There is a grimly prophetic quality about *The Ballot*, a novel due to be published on April 30, three days before the general election. Written by Rowland Summerscales, a retired Lobby correspondent, it describes a power struggle inside the Labour Party after Parliament has been dissolved and an election campaign is imminent. So the timing by the publisher, Robert Hale, is in itself remarkable enough. But one of the central incidents in the story is a political assassination by the Provisional IRA, by means of a car bomb.

None of this should be taken as decrying the principle of a freeze on the "common" prices; on the contrary. We have long argued that the Community's farm price levels are far too high—that is why they lead to the production of unsaleable surpluses—and should be brought down. Taken in isolation, a reduction in price levels is almost certainly unattainable on political grounds, so the next best thing is a price freeze on surplus products.

Compromise

In that sense the only positive decision which did emerge from the Council—the devaluation of the British, French, Italian and Irish "green" currencies—was a tolerable compromise with reality. Farmers in these countries will get a small increase in prices (though still less than the rate of inflation), while German farmers, whose prices are already far the highest in the Community, get no increase.

The trouble with the Silkin approach is that, by its exclusive concentration on the "electoral" appealing slogan of a price freeze, it has prevented substantive negotiation on other less dramatic measures which could have played a useful part in curbing surpluses and reforming farm structures in Europe. Any reform of the farm policy is bound to be a slow process, and it is bound to be more complicated than Mr. Silkin's plan for a four-year price freeze. The name of the game is negotiation, not confrontation.

Big bounce

Within a few years, company executives in far-flung offices will be talking to one another by private TV links. At least, that is the forecast of Sid Topol, who is in the business of providing "earth stations"—giving access to satellite broadcasting—at costs he claims even individuals can now afford.

Topol has just been in London, briefing investors in Scientific-Atlanta, of which he is president. The corporation, which has passed the \$100m annual turnover mark, was started by six professors from Georgia Tech with 100 dollars apiece.

The professor took the assault

make-up and feminine demeanour at the hustings.

The sartorial side of electioneering is treated in a decidedly male chauvinist way, however, in a guide just released by the Clothing Manufacturers' Federation, the Shirt Manufacturers' Federation—and even the Tie Manufacturers' Association. It tells how to score on STV, offering such gems as "the need to avoid shirts with frayed or soiled collars, creased suits which look as if they have been slept in, and odd socks or shabby shoes. It says that a dowdy candidate may turn a 'don't know' into a firm 'no'."

But perhaps the voters will be so sated with the accounts of Mrs. Thatcher's style, that the men will be able to stay as unkempt as ever, just letting the message speak for itself.

Withy workers

Volunteers stepped in at the weekend to help preserve Britain's ancient craft of basket-making. It has lately been brought almost to a halt by a lack of the basic materials; so the volunteers went to cut withies—as the branches are called—at Saxby in Lincolnshire. The owner of the willow holt, or copse, is Charles Leggett, a basket-maker all his life. But he is now too old to do the work.

Mrs. Catherine Wilson, keeper of the Museum of Lincolnshire Life, led the volunteers. She says: "The skill of growing willow for basket-making is fast dying out. The holt had not been cut for three or four years."

The willow will be distributed to basket-makers who cannot at present get supplies.

On her heels

Mrs. Thatcher will not merely be contending with her political opponents in the weeks ahead: she will also have to face up to the fashion writers. I gather that several of the popular papers have already decided to assign women reporters to the Tory leader—to keep the public closely informed on her clothes,

Lost touch

The following announcement recently appeared in a Colorado newspaper: "Owing to unforeseen circumstances our daily horoscope has been suspended."

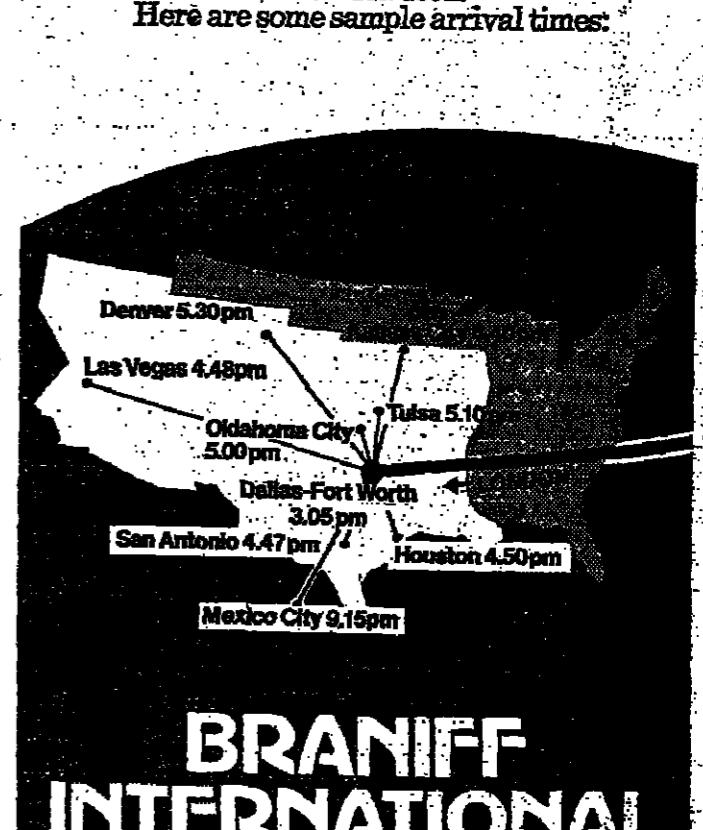
Observer

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CHILOIS

South Korea

South Korea's economic growth during the past decade has been spectacular, particularly since a high proportion of GNP still has to be spent on defence. The country's first "industrial revolution"—based on cheap labour—is now coming to a close, and the economy is moving towards a greater emphasis on heavy industry. Meanwhile the authoritarian system of government continues to be a source of controversy inside and outside the country.

The race goes on

By Charles Smith
Far-East Editor

THE LATE President Sukarno of Indonesia once described the last year in which his shaky regime held power in Djakarta as "the Year of Living Dangerously". For South Korea, practically every year since the postwar partition of the Korean Peninsula has been a year of living "dangerously"; but the experience seems to have been invigorating.

South Korea lives in the shadow of one of the largest concentrations of military power on earth (quite a large portion of which consists of its own highly trained and heavily armed forces) but has still managed to build one of the most dynamic peacetime economies to be found anywhere in the world. In the years since the 1973 oil crisis (when most other nations suffered drastic recessions, or at least breaks, in their rate of economic growth), Korea's GNP continued to forge ahead (at the cost, admittedly, of very nearly being forced to

default on debts to the outside world in the early part of 1975).

Today's Korea appears, on most counts, as one of the most impressive examples to be found anywhere of what is coming to be known as a "new industrial economy"—in other words a nation which has moved from undeveloped to almost developed status in the very recent past and which seems destined soon to challenge the fully developed nations. The average Korean citizen of 1978 was approximately 18 times better off than his 1960 forebear (in current prices) and can expect (in long-term Government projections) to turn out to be anywhere near four times richer again by the early 1990s.

It all seems too good to be true to western onlookers who have become accustomed to agonisingly slow growth rates and to the apparently insoluble problems of transforming outdated industrial structures. Yet Korea's high growth rate has brought its own problems, and some of them seem recently to have become fairly acute. It may not be too much to suggest that after a decade in which the GNP has seldom expanded by less than 10 per cent per year, the nation has now reached a major economic turning point.

A turning point can mean different things to different people: to the bureaucrats in the prices department of the Economic Planning Board (a body which still exercises supreme control over most aspects of the Korean economy) it means that the time has finally come to do something about the runaway inflation

which began to afflict Korea in the second half of the last year, after years of uninterrupted expansion. Prices went up, officially, by 14.4 per cent during 1978, but the real increase is put at between 20 and 25 per cent, and the Government cost of living index registered another four per cent increase in the first two months of 1979.

Tackling the inflation problem has meant not only using the Government's sweeping price control powers to the full (as is currently being done) but deliberately reducing the economy's growth rate through the imposition of tight money. (The target is 9.5 per cent for 1978, but some observers think the economy may continue to gallop ahead at a faster pace, however strongly the government applies the brakes.) Dealing with inflation also means imposing severe controls on the amount of foreign exchange that Korean exporters may bring into the country (because too much foreign exchange might produce a dangerous impact on the domestic money circulation).

If one section of the Government sees Korea at a turning point in terms of domestic economic policy, another focuses mainly on the crossroads that the country seems to have reached in foreign trade. Korean exports grew by 40 per cent per year from 1962 (when they were a spectacularly low \$55m) to the late 1970s when they surged past the \$10bn mark. Exports (and continue to consist) largely of simple manufactured goods,

with textiles providing a foundation and the electronics industry (and to lesser extent the newer heavy industries such as shipbuilding and machinery) providing the "cream". They now seem to have reached the point, however, where resistance from Korea's main overseas customers (the U.S., Europe and Japan in order of purchasing importance), calls for some fundamental rethinking

The Ministry of Commerce and Industry, which has the unenviable task of seeing that export targets are met, admits that the amount of ingenuity required to do this is a good deal greater today than it was a few years ago. What is going to be needed in future is not just ingenuity but a fairly radical change in the make-up of Korean exports, with the emphasis shifting from "vulnerable sectors like textiles to the heavy and more sophisticated products where Korea thinks barriers in world trade barriers may continue to be less formidable."

The switch from light industry to heavy industry and from labour-intensive to technology-intensive products makes sense from another point of view as well. Korean labour, once possibly the cheapest to be found in any Asian country where industrialisation was seriously under way, is no longer particularly cheap by regional standards—a fact which is hardly surprising after several years of consecutive 25 per cent wage increases.

Korea's cost effectiveness according to Government sources is now less than that of Taiwan, its principal rival in

basic export industries. The solution to this problem is to upgrade the productivity of labour by switching into more sophisticated sectors: the question which concerns everyone either directly or indirectly with Korea's economic future is asking: how quickly and easily can this be done?

If the switch is made easily and quickly, which Korean officials claim is possible but which some sceptical outside observers (such as foreign bankers) obviously doubt, attention will shift to one other major problem which could (but is hoped will not) block long-term economic growth prospects. Korea, like Japan, is a resource-poor country with almost nothing to boast of in the way of domestic mineral deposits, apart from rapidly depleting supplies of low quality coal.

What no one seriously doubts, as the country contemplates the various options ahead of it today, is that Korea must continue to grow, and must eventually challenge advanced western countries (including Japan) in some of their current economic "strongholds". The rationale for Korean growth is so simple that it is sometimes not believed, but it makes sense to everyone who has spent long enough in Seoul to appreciate the intensity of the South's struggle for power and influence versus the North.

South Korea is engaged in a race to best North Korea in terms of economic potential (and ultimately also in terms of military capacity) in preparation for the no doubt far off day when the current freeze on North-South relations ends and the two halves of the country

begin to consider the terms on which reunification might ultimately occur. The race was a more desperate affair in the early 1960s, when the South was predominantly agricultural and the North was already highly industrialised. It is already seen, however, as a matter of life or death—at least by the men who control the economy and make the decisions that count.

Whether the northern challenge also means that Korea has to continue to operate its current highly authoritarian system of government is a more controversial question, and one on which a fairly deep (if publicly suppressed) cleavage of opinion exists within the country. Supporters of the "Korean style of democracy" upheld by President Park Chung Hee (including quite a few politicians who technically belong on the opposite side of the National Assembly) claim that Korea cannot afford political turmoil while the North stands ready to "meddle" in the affairs of the South. It is also said that western-style democracy is not necessarily wholly suited to a society with strong Confucian traditions.

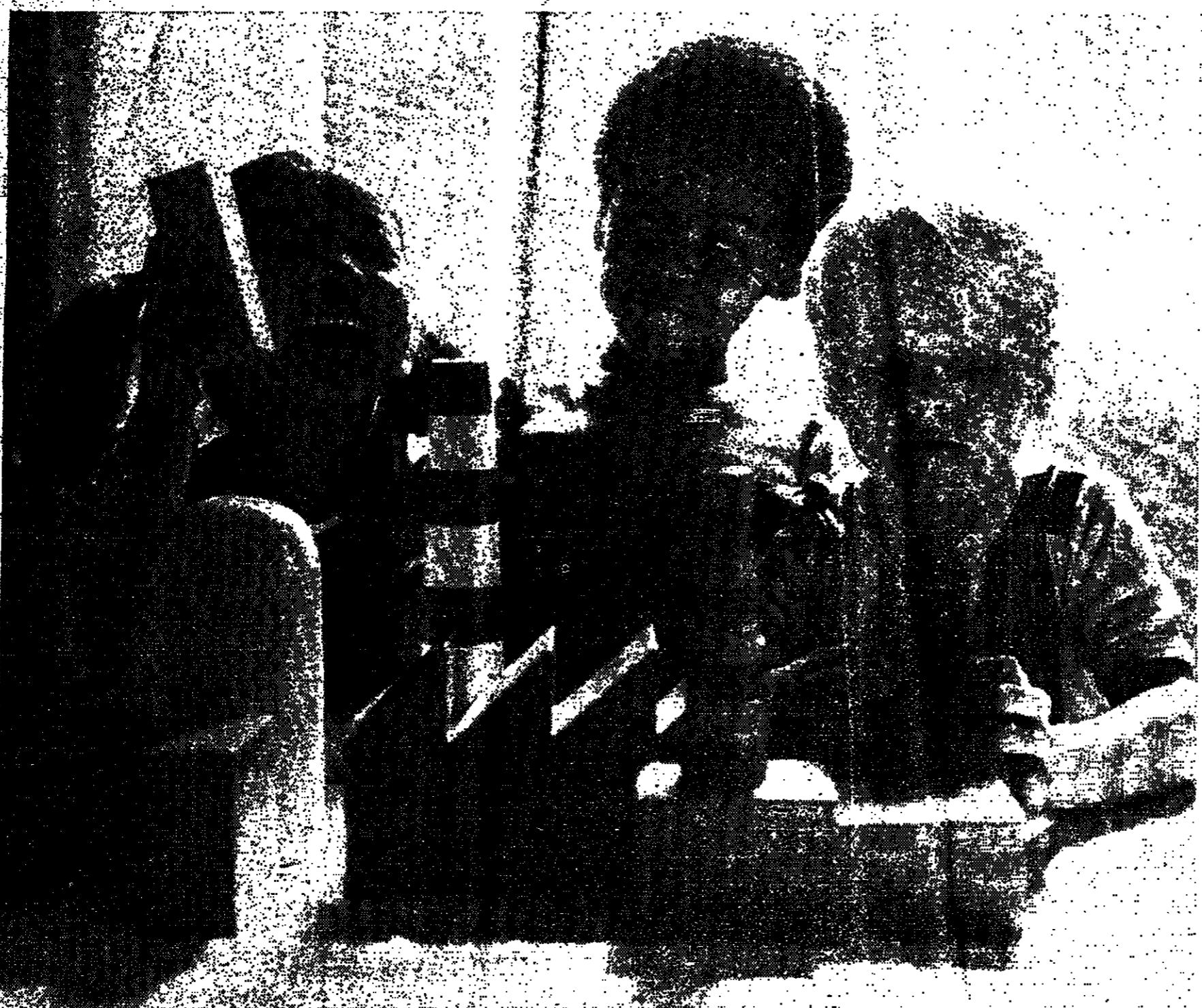
President Park's critics (who are to be found, most vocally among the university intelligentsia and in Korea's large Christian community) say that while all this may be true, the effect of the system has been to satisfy the taste of a particular set of men for staying in power.

The arguments in favour of more or less democracy in Korea will no doubt continue to rage (and to be reflected outside the country in debates on such questions as whether or

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not the United States should maintain a military presence on the peninsula). What they seem unlikely to do is to change the actual political climate of the country—at least for as long as President Park and his colleagues remain in power. At 61, and with 18 years of Government behind him, Mr. Park is not exactly a newcomer, but he is probably also a good many years away from retirement. Only after his withdrawal from the scene (and perhaps after similar changes in the Northern leadership) is there any real likelihood that Korea will become a different place from the hard-driving, highly disciplined and dynamic society that it is today.

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SOUTH KOREA'S political system has evolved from democratic instability in the early 1960s to what President Park Chung Hee calls "Korean-style" democracy. In the process individual freedoms have been whittled down and the Government's hold on power has been gradually but steadily strengthened.

The system has come in for widespread criticism in the U.S., where the fact that U.S. troops are stationed in South Korea to protect a "free" political system makes President Park's authoritarian style of government an obvious target.

At home, the Government has been able to make a good case for the view that a firm hand is needed to produce economic growth and ward off the northern "menace." Even so, the legitimacy of Korea's claim to be a fully democratic society remains a sensitive issue.

The electoral system is one area in which South Korea departs considerably from Western democratic models. The main legislative body is the National Assembly, two-thirds of whose members are elected by popular vote at six-yearly intervals.

The remaining third of Assembly members, however (the so-called Yujeong-hoe or political fraternity for the revitalising reform), are nominated by the President of the republic and then "elected" by a non-political electoral college whose membership requirements ensure a total non-involvement in politics.

The same body, known as the National Conference for Unification, also elects the president, who holds office for six years. One individual can be elected to an indefinite number of presidential terms and President Park Chung Hee (who originally took power in a 1961 military coup) has just been elected to his fourth term of office.

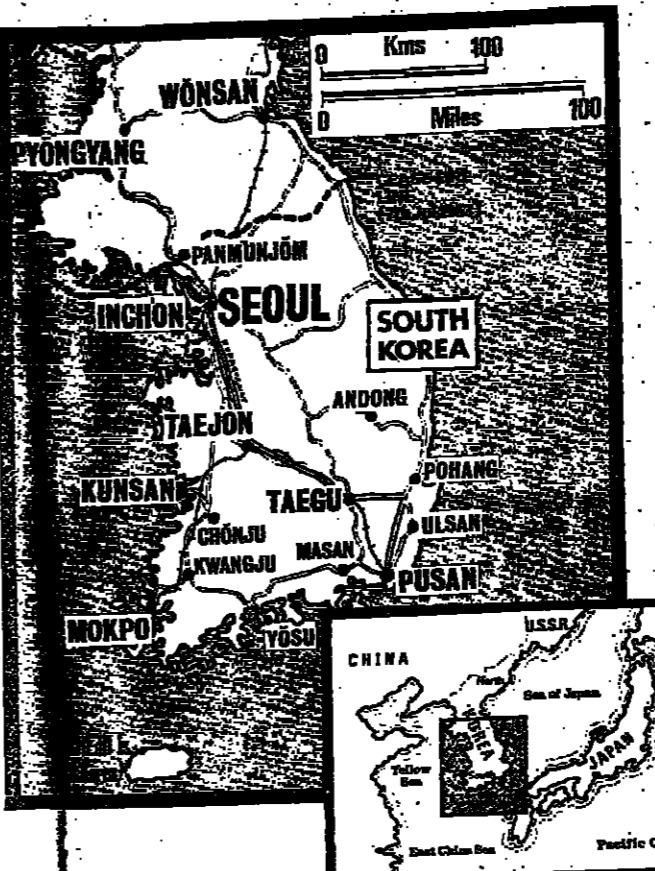
Criticism

Another instance of diminished democratic freedoms is the fact that human rights, while theoretically guaranteed, are in practice in a state of suspense. This is because of the so-called Emergency Measure Number Nine introduced in 1975 which forbids criticism of the country's existing constitution (the so-called Yushin, or revitalising reform, constitution) which was introduced by referendum in 1972 and which instituted the indirect system of presidential election.

Those who violate Emergency Measure Number Nine can be arrested without warrant, as can violators of the older anti-communist law which forbids any form of pro-communist or "fellow travelling" activity within a fairly wide range of definitions.

The government does not publish figures for the number of political detainees under these regulations but it is estimated that about 200 people are in detention, leaving aside short-term detainees who may be held in for a few hours of questioning. Political prisoners are not known to be subjected to torture today, although physical maltreatment of prisoners may have occurred in the past.

Press censorship in South Korea operates through an informal system of "self-censorship" by newspaper editors, except in the case of a handful of dissident publications.



tions which are subject to direct screening by censors. Its effect is to ensure that news-papers echo the official line fairly closely on political or foreign policy issues and to mute criticism of some of the more controversial aspects of the government's economic policy.

A final respect in which South Korea's democracy differs from most Western democratic systems is in the absence of elected local government. The only popular elections held in the country are on a national level for the two-thirds of the Assembly seats which are not filled by presidential nomination. A partial substitute for elected local government is to

sible the pursuit of a "rational" economic policy which places national above regional interests.

Regional interests are claimed to have interfered seriously with economic policy-making before the institution of the nomination system in 1972.

The main argument against President Park's "Korean-style" democracy is that the system seems to have served to perpetuate rule by the same individuals—or individual, given that the president himself apparently exercises direct personal influence over a wide range of government decisions. The government's monopoly of contacts with North Korea is another controversial result

Criticism of the present system comes, most vocally, from the so-called dissidents who have made a point of attacking the Yushin constitution (despite the ban on criticism incorporated in Emergency Measure Number Nine) and who have sometimes been arrested for their pains.

The dissident leaders include former presidential candidate Mr. Kim Dae Jung (who provided a strong challenge to President Park in the last direct presidential election in 1971 and who was released from "hospital detention" just before the end of 1978), "Rank and file" dissidents are to be found in the Korean Christian community and among teachers and students—but many of the latter apparently graduate to become dedicated employees of the business establishment which provides the main private level support for the Park regime.

Parliamentary opposition to the Park government is provided by the New Democratic Party (and by the much smaller National Unification Party). The NDP under its "middle-of-the-road" leader Mr. Lee Chul-Sung, says Korea has to maintain a "balance" between national security and individual liberty and has confined its criticisms of the government's emergency regulations to debates within the National Assembly.

A more vocal wing of the NDP, led by Dr. Kim-Young Sam, the party's former chairman, has attempted to stir up public opposition to the emergency rules and to South Korea's general failure to "measure up the standards" of Western democracy. Dr. Kim claims to have had an enthusiastic response from the half million South Korean residents of the United States but has found his political activities inside South Korea handicapped by indirect government action.

The views of ordinary people about the present political system remain something of a mystery. The fact that the NDP secured a marginally larger vote than the pro-Government Democratic Republic Party in last December's elections to the National Assembly presumably should be read as a mild criticism of the regime—though it would appear that voters were protesting more against price rises and a recently-introduced value added tax than against the Government's stand on the basic issue of "democracy" versus stability.

A second feature of the 1978 election result which may possibly have disturbed the Government more than the NDP's success, was the participation of very large number of independent candidates (255 as against 161 candidates of officially registered parties) and a sharp increase in the independents' share of the total vote.

South Korea's electoral laws are rigged against independent candidates, who have to pay bigger deposits than registered party candidates and have less freedom to campaign. The fact that so many people chose nevertheless to stand in the election and that so many voters went to the polls (more than 80 per cent of the electorate) suggests that South Koreans have not lost their taste for democracy—no matter how much the Government would prefer them to opt for stability.

Charles Smith

SOUTH KOREA II

Politics

Uneasy democracy



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THE KOREAN peninsula is one of the few places in the world where relations between a Communist and a non-Communist Government continue to be conducted in a style reminiscent of the 1950s. The Government of President Park Chung Hee in the South has no relations, either official or unofficial, with that of President Kim Il Sung in the North. Movement across the Military Demarcation Line, which divides the two halves of the country is forbidden, and there is no telephone link or exchange of mail.

The concentration of military power along either side of the Demarcation Line (or to be exact to the north and south of the four kilometre wide Demilitarised Zone) is one of the heaviest in the world, involving over 1,000 men and more than 1,000 fighter aircraft (to say nothing of American nuclear warheads). Almost the only concession that North and South have made to the changing mood of the 1970s is to withdraw a ban on the adoption of a "two Koreas" policy by the outside world. South Korea currently has diplomatic relations with 105 governments while the score for North Korea (according to southern sources) is 93. These figures imply a considerable overlap—in other words there is no problem today for a country which wishes to maintain embassies in both Pyong-

ang and Seoul (provided it does not happen to be a major ally of either the South or the North).

Opinions differ about the likelihood of a military flare-up along the Demarcation Line, with the South claiming that such a thing could quite easily happen. The tunnels dug by North Korea under the DMZ are cited as evidence of the North's "aggressive intentions" and the North's declaration that war is unlikely. What no one appears to disagree about is that the odds against a peaceful reunification of the country are enormous—at least while the present leaderships remain in power.

The Northern formula for reunification, establishment of a confederation which would seek joint membership of the United Nations while the existing authorities continued to run things in their own way on either side of the frontier, is anathema to the South, which favours a step-by-step approach starting with exchanges of mail and the reuniting of divided families.

Because the differences are so wide, and because neither President Park nor President Kim seem to be the kind of men who would willingly step aside in the interests of reunification, the occasional negotiating sessions that have been held between the two sides are apt to be dismissed by outsiders as meaningless

rituals, indicating, at best, that one side or the other is trying to gain a few propaganda points that might improve its image in the outside world. This interpretation may be correct, but it overlooks the fact that meetings of any kind between North and South are sufficiently rare to deserve attention—and to justify speculation on what might have prompted the two sides to start talking.

The most prolonged and promising series of contacts to have taken place between Pyongyang and Seoul since the Korean armistice were held in 1972 and 1973 when a series of secret high level contacts between the two governments led to the establishment of a semi-official South-North Coordinating committee (whose meetings ran for about a year before being unilaterally boycotted by the North). The next occasion when the two sides showed interest in talking to each other was in January this year, when President Park announced his Government's willingness to meet the North at any time, place and at any level.

North Korea responded with an elaborate set of proposals for the reduction of tensions and eventual reunification of the country. The Pyongyang blueprint, which was discussed at a series of abortive meetings between the two sides in February and March, proposed the suspension of propaganda broadcasts by both sides, the termination of "hostile military movements" on either side of the Demilitarised Zone, and the convening in October of a "grand national congress" in Pyongyang at which decisions would, it was hoped, be taken on the North Korean plan for the formation of a confederation.

Although South Korea fielded a team to discuss the Northern proposals (and to put its own counter-proposals), its spokesmen have dismissed the North Korean move as "fake," partly because it repeats old proposals that had already been dismissed by the South (the confederation idea, for example), and partly because of the obvious tactical nature of some of the other elements in the Northern package.

The proposal to suspend hostile military movements at either side of the DMZ at the beginning of March seemed to be quite clearly designed to be a spanner in the works of "Operation Team Spirit," the joint U.S.-South Korean military exercise which was due to start that month (and which did in fact take place despite Northern protests). The suspension of propaganda broadcasts proposed by Pyongyang referred to Government radios but

CONTINUED ON NEXT PAGE

SOUTH KOREA III

The economy

A change of direction

Chai Jaiso

SOUTH KOREA may not quite deserve to be ranked as the most remarkable economic success story of the 1970s—that distinction probably should go to Taiwan which has achieved almost as much growth with a good deal less inflation during the difficult years since the 1973 oil crisis. But South Korea certainly outclasses virtually every other country in the world because of its sustained record of high economic growth and spectacularly increasing exports.

Korea's GNP was worth just over \$2bn in 1961, the year when Major-General (now President) Park Chung Hee seized power in Seoul in a bloodless military coup. At the end of this year GNP should be well beyond \$50bn. Exports were \$50m in 1961 but hit \$12.7bn in 1978 and are scheduled to reach \$15.5bn in 1979. Per capita GNP, which was a mere \$82 when General Park marched into Seoul, will be \$1,500 by the end of this year, putting Korea just ahead of some of the poorer countries in the "rich man's club" of the OECD.

The simplest and best explanation for Korea's economic achievement is that growth was and is a matter of survival. For the past 25 years South Korea has been "racing" its neighbour North Korea to establish a strong economic and political system; with the alternative to failure, the probability of eventual unification of the Korean peninsula on Pyongyang's terms.

The race today looks substantially won. The South Korean economy would appear to be between four and five times as large as that of the North in absolute terms, while individual Koreans are probably a few hundred dollars per head better off than their northern counterparts. That does not mean that the South can afford to call a

balance sheet and industry has come to a standstill. The government, for example, has

stimulated the economy, but by a fairly severe set of deflationary policies including the imposition of a tight money policy (in force since the second half of 1978) and a balanced budget.

In deciding to put on the brakes in late 1978, South Korea's economic planners were not simply attempting to bring

Differences

CONTINUED FROM PREVIOUS PAGE

conveniently left out of account a South Korean liberating radio station which apparently operates from just north of the military demarcation line, though purporting to be located in the south.

A broader interpretation of his motives for the northern peace move which is circulating in Seoul suggests that various external events (and one major internal development) might have prompted Pyongyang to start talking. According to this theory North Korea could be seeking to forestall pressure from China for the normalisation of North-South relations, assuming, as most people do, that China was urged to use its good offices in this direction when Vice Premier Teng Hsiao-ping made his recent trip to Washington.

Another North Korean objective could be to reassure the American public of its peaceful intentions towards South Korea at a time when the future of President Carter's plan for the withdrawal of U.S. troops from the South seems very much in balance.

Finally, and most intriguingly, there is speculation that the North might have been laying second thoughts about its traditional policy of relying on the maintenance of decisive military superiority over the South to bring about ultimate reunification.

The point being made here is that North Korea does not wish to maintain military superiority, but that it may be reaching a point in its economic development where such a policy is no longer viable.

North Korea (according to South Korean intelligence sources which may not necessarily be correct) spends between 20 and 25 per cent of its GNP on defence,

whereas the south claims to spend around 6 per cent. However, the South's GNP has been growing considerably faster than that of the North and is now possibly five times as large (about \$45bn in 1978 compared with the (very roughly) estimated northern figure of \$8bn-\$9bn). This would appear to mean that the absolute level of defence expenditure (as opposed to the ratio of defence to GNP) may now be roughly the same in both halves of Korea, with the South tending to "catch up" (and overtake) Northern defence spending.

Southern analysts claim that the cumulative total of North Korean defence spending since the end of the Korean war is between two and two and a half times that of the South. The North also has more men under arms, even though its population (estimated at 17m) is barely half that of South Korea. The North may continue to have a larger army for the foreseeable future, but Northern firepower, according to southern analysts, could be overtaken by that of the South by the mid-1980s if present trends continue. This will remain true even if American intelligence is correct in its recent reassessment of Northern armed strength (according to which the North may be about 35 per cent stronger than was previously believed).

If South Korean analysts are right in believing that the North may eventually lose its military edge, the North would seem to have three policy options—none of them easy or

half; with the labour force growing at over three per cent per year. South Korea will need to continue to "deliver" a high growth rate for many years just to provide jobs and opportunities for those who will return home. What does appear to be true is that after a decade of rapid conversion from an agriculture-based to a light industry-based economy South Korea has now reached a turning point in its economic development, perhaps as much as 20 to 25 per cent.

The immediate cause of this rather worrying bout of inflation is thought to have been the massive increase in money supply which occurred in 1977 when Korea's unexpected success in winning Middle East construction contracts brought a flood of foreign exchange into the country. The money supply rose by 40 per cent in 1977 and was still increasing at an annual rate of 25 per cent last year (or 34.5 per cent in the case of M2). This occurred despite a series of Government curbs, including a freeze on the repatriation of roughly 80 per cent of foreign exchange earned by construction companies, and a deliberately "engineered" deficit on the current account of the balance of payments.

The Government hopes to hold this year's increase in consumer prices to between 10 and 12 per cent and to keep the rate of increase in money supply down to a "steady" 25 per cent for both M1 and M2. It

has powers to place direct restraints on the ex-factory price of 96 key items produced by major local manufacturers, but was obliged to allow many of these to be adjusted upwards during the first two months of 1978 in order to "catch up" with runaway increases in retail prices that occurred in late 1977.

The aim is to keep the prices of such items steady at their new levels during most of the remainder of 1978, but this could turn out harder to achieve than the Government appears to believe. Higher prices for imported crude oil (which supplies 55 per cent of energy needs) still have to be reflected in the general price structure and are expected to add at least 2 per cent to the wholesale price index during the remainder of the year. Another problem that could prove harder to handle than the Government seems to expect involves the stabilisation of Korea's rapidly rising farm prices.

The Economic Planning Board says the Government has deliberately kept farm prices high in the past few years (in order to prevent too rapid a movement of the rural population into the cities). It also admits that a policy of going all-out for self-sufficiency in rice (now successfully achieved) has tended to produce shortages of other types of food including meat and vegetables.

Prices of some vegetables

cent during 1978, giving the public what the Government claims was an exaggerated impression of the overall inflationary problem. To deal with the food price problem the Government plans gradually to phase out its policy of preferential treatment for farmers, but it acknowledges that this may take time.

A third major symptom of overheating has been a sharp change in conditions on the labour market. Korea regarded as a country with a chronic excess of labour until two or three years ago and planning officials today continue to talk of the need to maximise GNP growth rates in order to absorb a continuing increased in the labour force. In the short term, however, there seems to be no question that Korean employers face a seller's market for labour.

Wages have been going up by around 25 per cent per year for the past three years, with particularly sharp increases in rates for skilled or managerial workers. The Government has been encouraging small companies to increase the wages of their lowest paid workers so as to avoid a (politically dangerous) increase in differentials between high and low paid sectors of the community. It is also, as matter of urgency, taking steps to increase enrollment of students in higher education, so as to increase skilled manpower supplies.

Labour shortages in some

areas, however, are clearly not going to disappear overnight, even though Korea still has what most observers would regard as a large reservoir of workers in its overpopulated agricultural sector (38 per cent of the total labour force at the last count).

If the Government manages

to solve the overheating prob-

lems—and there is no reason, given time, to doubt that the problems will be solved—the prospects for the Korean economy will become very much a matter of what happens in the outside world. Growth

could be stunted during the next five years or so by a drastic increase in the number of import barriers erected in Europe, Japan and the U.S., or just conceivably, by global shortages of the imported fuels and raw materials on which the economy is dependent.

The Government's recipe for avoiding these dangers is to bring about a shift in the structure of industry from lighter and more labour-intensive or skill-intensive sectors into capital-intensive or

rising farm prices.

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imported raw materials and

is respond effectively to centralised control by a handful of

bureaucrats.

The EPB's general air of confidence could mask a few doubts about the future. Not everyone agrees that Korea will make the transition to high technology industries as easily and rapidly as it switched from an agriculture-based to a light industry-based economy between 1965 and 1975. "The Koreans think they can start turning out turbines and generators in six years. Our experts think it might take 25 years" is how a diplomat at the Seoul Embassy of one of Korea's major Western trading partners expressed these doubts recently. There are also a variety of views on the seriousness of the protectionist threat to Korea's exports, which constitute a vital 35 per cent of its exports.

Korea does not pretend to be unconcerned about protectionism. But the planners who opted for high growth and rapidly growing exports at the risk of becoming over-dependent on world trade could still turn out to have had sounder instincts than advocates of a more cautious strategy. Other countries besides Korea have been making a dash for growth in the past few years on the assumption (which could well prove to be correct) that export-led expansion policies will prove harder to pursue in the eighties than in the seventies. Whatever happens, Korea is unlikely to have any reason to regret that it joined the race.

Charles Smith

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SOUTH KOREA V

Trading companies

Choi Jiseok

Group system wins more exports

MANY COUNTRIES, including Mexico, Singapore and reportedly even France, have copied or considered trying to copy the hitherto unique institution of the Japanese general trading company (*sogo shosha* in Japanese). The only country which seems to have succeeded is South Korea.

South Korea had 13 officially-registered GTCs in 1978 and has 12 today (one dropped out at the beginning of the year after failing to meet the conditions for 'GTC designation'). The group of companies bearing this privileged and exclusive label sold 32 per cent of Korea's exports last year and probably will sell more than 40 per cent in 1979.

This is enough to prove that the GTCs represent a major element in the export-oriented South Korean economy. Whether they are also a helpful and positive element so far as the rest of the economy is concerned, is still partly open to question.

South Korea's Ministry of Commerce and Industry, which is responsible for seeing that the country meets its export targets, came up with the idea of creating GTCs in 1975, after concluding that the far-flung branch networks of Japan's

sogo shosha had a lot to do with the global success of Japanese exports. The requirement for GTC status in the first year was that exports should exceed \$50m and only one company qualified (Samsung Company, the long-established trading arm of the Samsung group). In subsequent years requirements were stepped up considerably as more and more of Korea's leading business groups joined the queue to win GTC status.

The 1979 qualifications include: exports equivalent to at least 2 per cent of the national export figure for 1978 (this works out at about \$284m per company); sales of at least five different items to reach or exceed \$1m-worth per item; an international branch network of at least 20 offices; and public quotation of the company's shares on the Seoul Stock Exchange.

The 12 GTCs registered by the government this year include two companies which did not, in fact, meet all of these qualifications. One, the semi-official Koryo Trading Company, was given special treatment because it handles small orders for small and medium-sized business enterprises and therefore could not be expected to equal the turnover of compa-

tors dealing in bulk orders. A second company, Hanil Synthetic Fibre, escaped through because it was able to convince the authorities that its indirect exports of artificial fibres (through other South Korean companies) should be added to the figures for its direct exports recorded in the customs statistics.

In return for fulfilling the qualifications set by the government the GTCs receive various privileges. They can become members of any or all of the export associations organised within major South Korean industries (which means they

can acquire a larger volume of export intelligence at a lower cost than non-GTCs are able to do). They can select their own "main" banks (unlike ordinary South Korean companies which have their main banks designated for them by the Bank of Korea).

Their overseas branches, or subsidiaries may raise foreign currency loans without reference to the strict guidelines which apply to offshore borrowing by the rest of South Korean industry. And they pay lower fees than ordinary companies for the processing of export contracts required by South Korean law.

On average, South Korean GTCs depend on group members for about 50 per cent of their export turnover while picking up the rest of their business from smaller, unattached clients. GTCs are encouraged by the Government to acquire subsidiaries and, therefore, are

tending to draw within their orbit more and more small and medium-sized concerns which find themselves in need of powerful friends. In a majority of cases GTCs also perform an overall planning and co-ordination function for the groups of which they are members.

The GTC is, therefore, in a very real sense the "core" of the group to which it belongs and the designation of GTC can be said to confer "group status" on the whole family of companies to which the company concerned is related. The central role accorded to the GTC fits in naturally with the emphasis on exports which pervades South Korea's entire economy. It provides a contrast, however, with the situation in Japan where a *sogo shosha* may, or may not, play a central role in the group to which it is related.

The Ministry of Commerce and Industry, which administers the GTC system, says that the companies concerned enjoy one other important benefit. They are attracting the brightest graduates from top universities, in contrast with the situation of a few years ago when the toughest competition was for jobs in the government.

The drawback of the GTC system, as seen by the companies which have qualified, is that government guidelines are too ambitious and make it too hard to register profits (although all 13 GTCs did, in fact, report profits for the year 1978).

In the view of ordinary South Korean trading concern which have not managed, or tried, to win GTC status the system is open to more radical objections. They argue that the creation of GTCs has served merely to concentrate the business of selling Korean exports into fewer hands—not to increase the overall amount of business faster than it would have increased anyway. Concentration of ownership and control could be dangerous, according to the system's critics, although it may appear harmless while the economy, and exports, are growing fast and everyone is becoming rapidly better off.

The Ministry of Commerce and Industry admits that critics of over-concentration could have a point, but says the GTCs have created an "atmosphere" of export promotion

THE GENERAL TRADING COMPANIES		Number of overseas branches	Exports in \$m
Company name and date of designation		1977	1978
Samsung Company, May, 1975	33	390.1	493.4
Daewoo Industrial Company, May, 1975	34	361.3	705.8
Ssangyong Industrial Company, May, 1975	23	117.1	284.5
International Chemical Corporation, Nov., 1975	23	297.0	472.3
Korea Trading Company, April, 1976	20	127.0	188.2
Hyosung Moolsan, August, 1976	5	23.7	31.3
Bando Trading Company, Nov., 1976	25	152.8	375.8
Sunkyong, Nov., 1976	25	198.8	392.6
Sam Wha Company, Dec., 1976	21	176.2	283.4
Kumho Company, Dec., 1976	23	167.1	260.6
Hyundai Corporation, Feb., 1978	30	323.3	259.7
Yulsan Industrial Company, Feb., 1978	21	91.9	186.7
Total	307	2,562.6	4,033.3

Note: Yulsan Industrial Company did not apply for GTC designation in 1978.

GROUP INTERESTS

Samsung Company: Textiles, garments, department store, sugar refining, hotels, electronics machinery, shipbuilding, rolling stock, defence, construction. (22 companies)

Daewoo Industrial Company: Heavy industry, construction, electronics, shipping, finance, insurance, leather, textiles (23 companies)

Ssangyong International Chemical Corporation: Cement, electronics, chemicals, university (11 companies) Footwear, textiles, paper, electronics, construction, shipping, transport, securities (22 companies), approximately 200 subsidiaries

Hanil Synthetic Fibre: Synthetic fibres, wool spinning and weaving, petrochemicals (6 companies)

Koryo Trading Company: 100 per cent owned by Korea Traders Association, specialises in small orders

Hyosung Moolsan: Tyres, leather products, tannery, nylon (8 companies)

Bando Trading Company: Member of Lucky Group, electronics, chemicals, mining construction, petroleum refining, securities (32 companies)

Sunkyong: Textiles, electronics, machinery, rubber, tourism (12 companies)

Samwha Company: Footwear, raw silk, silk fabric (25 companies)

Kumho Company: Tyres, electronics, bus transport, bicycles (12 companies)

Hyundai Corporation: Construction, automobiles, shipbuilding, heavy industry (17 companies)

Yulsan Industrial Company: Shipping, aluminium, construction

which has helped the country taking over import business as a whole.

The Ministry has one other specific concern—to see the GTCs increase their role in the handling of imports. The 13 GTCs handled only 4 per cent of the nation's total imports in 1978 (compared with 32 per cent of its exports) and seem to have faced difficulties in

successful or otherwise, they are at least free from the worry of foreign competition. A non-South Korean trading company requires approval from the (private sector) Korean Traders' Association to open a full operating branch in Seoul. So far not a single approval has been granted.

C.S.

Friction

CONTINUED FROM PREVIOUS PAGE

Traders' Association before they would represent formidable competitors for Korea's fledgling general trading companies (GTCs). If given a free hand, Korea probably has much less reason to fear that western trading concerns might take over the handling of its imports and exports.

Restraint

South Korea's banking regulations also serve as a restraint on Japanese business activity, although less drastically so than in the case of trading company branch approvals. The Bank of Korea has allowed four Japanese banks to open full

branches in Seoul, which means that Japanese banks have been given numerically equal treatment with British and French banks, despite the overwhelming larger stake of Japan in the Korean economy. The Japanese authorities have restricted Korean banks to the opening of the same number of branches in Tokyo (which means that the Korean banking presence in Japan is much smaller than that of major western European countries).

Korea seems to be aware that its policy of import liberalisation, introduced last year, could work in favour of Japan and against the interests of less

competitive exporters from the West. To minimise the advantage given to Japan the Government appears to have made a point of selecting items in which European industry is strong (eg biscuits) for inclusion in the initial rounds of liberalisation. Ultimately Korea may have to open its market to products in which Japan enjoys a strong global competitive edge (for example cars). The hope is, however, that when that time comes Korean industry will itself have grown strong enough to hold its own against Japanese competition.

C.S.

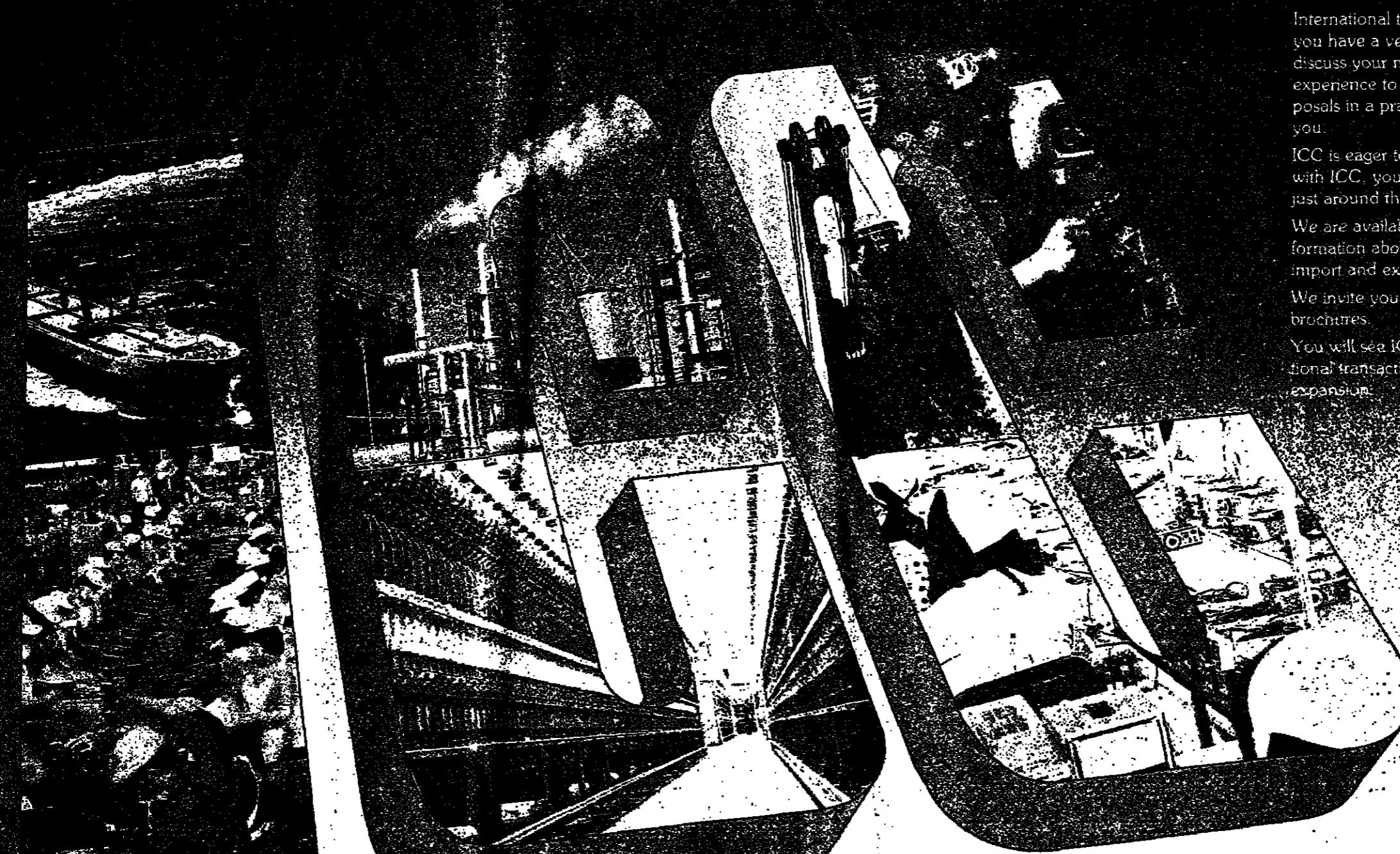
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Banking

Competition and conformity

SOUTH KOREA'S banking is a curious mixture of competition and guided monopoly. On the one hand five nationwide commercial banks—all partly Government owned—vie with eight Government-owned specialised banks, ten private regional banks and about two dozen foreign banks for chronically-scarce funds.

On the other hand, the day-to-day functioning of Finance Ministry and its off-

shoot the Bank of Korea, exercise comprehensive control over both the commercial and specialised banks, leading to a high degree of uniformity in their behaviour. The Bank of Korea is involved in the operations of the commercial banks up to the level of appointing senior officials and even to issuing detailed instructions on the day-to-day functioning of the institutions.

The structure of South Korean banking gives a deceptive impression of diversity. At the top of this structure are the five commercial banks—the Commercial Bank of Korea, the Choeung Bank, Hanil Bank, Korea First Bank and the Bank of Seoul and Trust—which are all effectively state-run.

The Government is the largest shareholder in all except

Commercial Bank of Korea,

from which it transferred most of its equity stake to the Korean Traders Association in 1972.

All these banks have their head offices in Seoul and operate a network of nationwide branches. With similar historical backgrounds and with strong intervention by the government in their development, the five city banks have taken place in this breakdown in the past five years are almost the same for all five

but it may also set different ratios for different types of deposits.

It is perhaps not surprising that a private study of the composition of the lending portfolios of the city banks showed that not only were they almost identical in terms of industries supported, but that changes that have taken place in this breakdown in the past five years are almost the same for all five

ended their ordinary banking business in competition with the commercial banks, and now capture a sizeable volume of ordinary deposits.

At least two of the specialised banks—Korea Development Bank and Korea Exchange Bank—compete directly with the city banks in the more profitable areas of their business, notably foreign exchange lending.

The remaining, and newest section of the banking sector, are the branch offices of foreign banks operating in Seoul and to a limited extent in Pusan, the second largest city. At present there are 24 fully-operative foreign banks, while about 10 more have established representative offices, which is usually the preliminary step to seeking a full permit.

The foreign banks operate mainly in the foreign exchange loan market, with very little of their assets or liabilities in domestic currency. No more than 10 per cent of total deposits are held in Won, South Korea's unit of currency. The main source of funds is the overseas head offices of the banks. This accounts for about 60 per cent of operating funds, with the remainder coming in foreign exchange deposits from South Korean sources.

The foreign banks' total foreign exchange lending within South Korea in 1978 reached U.S.\$849m, more than double the level of the previous year. In contrast, foreign exchange loans by domestic banks was \$1.238m. However, the domestic deposit base of the local banks at the end of 1978 was 1 Won 7,490bn more than 80 times larger than that of the foreign banks.

One of the main reasons for the concentration of foreign banks on foreign exchange lending—apart from its greater profitability—is the acute shortage of domestic currency they must overcome.

With such a limited deposit base, their only access to Won funds is by sale of securities in the market, or by availability of the swap facilities they have with the Bank of Korea for the conversion of foreign currency.

As in many countries, the foreign banks have no access to rediscounting facilities with the central bank.

However, they are required to maintain a certain range of over-bought positions in foreign currencies, and any funds above the upper limit must be sold to the central bank or Korea Exchange Bank in return for Won. So they may increase their Won funds by building up foreign exchange holdings, but in the process eventually supply more lendable foreign exchange to the rival official banks.

The primary bank must establish a ceiling on the worldwide capital loans to a company, with this ceiling subject to Bank of Korea approval. In addition, the company must submit a written financial development programme to the primary bank every two years, which the bank must then oversee. The bank has the obligation to help a company improve its net worth by restraining dividends and approving any diversification moves or foreign borrowing.

No institution can provide loans of more than Won 50bn to a target company without the approval of the primary bank.

Therefore all areas of retail banking in South Korea are subject to a very large degree of government direction or "administrative guidance". The degree to which this is entrenched is best illustrated by the "primary banking system" which has been set up to supervise corporate lending for the past two years.

The nominated purpose of the primary banking system is to improve the financial operations of major companies by exercising systematic control over all loans supplied to them. The target companies of the programme were put into two

categories: those with total bank borrowings of more than Won 5.0bn and those which were members of a business group which had total group borrowings of more than Won 10bn and which themselves had borrowed more than Won 100m.

Each year the Bank of Korea designates those companies which are subject to the primary banking system and a primary bank is nominated for each such company, plus a limited number of secondary banks.

After the only a primary bank or secondary bank of a company can provide loans to that company. The target company is compelled to have one primary and perhaps six secondary bank—including foreign banks.

The primary bank must establish a ceiling on the worldwide capital loans to a company, with this ceiling subject to Bank of Korea approval. In addition, the company must submit a written financial development programme to the primary bank every two years, which the bank must then oversee. The bank has the obligation to help a company improve its net worth by restraining dividends and approving any diversification moves or foreign borrowing.

No institution can provide loans of more than Won 50bn to a target company without the approval of the primary bank.

In the event that a company finds itself in financial difficulties, the primary bank will move in to devise a scheme to salvage the operation.

Because foreign banks as well as the domestic banks must participate in this system, the overall effect is to give vast discretionary powers to the primary banks. And it is through financial "guidance" such as this that South Korea has been able consistently to achieve the trade and industrial development targets it planners have set year by year.

Ron Richardson

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SOUTH KOREA'S hopes of sustaining a 10 per cent annual growth rate up to the early 1990s depend on the solution of two external problems. One is to find enough markets for the goods that her industry will produce. The second is to ensure stable supplies of natural resources.

The South Korean planning authorities are probably at least as worried about the second of these problems as they are about the first, although they seem reluctant to discuss it much in public. Within the resource sector energy constitutes the most serious area of concern, with attention focusing on the country's rapidly-growing dependence on crude oil imports.

Oil imports provided 55 per

cent of South Korea's total energy needs in 1975, but were supplying 60 per cent of the total last year. A one-year-old long-term projection of the South Korean energy picture prepared by the Korea Development Institute (the latest material on the subject that is officially available) suggests that dependence on imported oil will reach 64 per cent in 1981 before, it is hoped, tailing off in the late 1980s.

For this to happen, however, the country will have to be successful in the various energy diversification and conservation programmes on which the government is embarking. Even if success is achieved in these fields, oil imports in 1981 will be double what they were in 1975 and will roughly double

again by the early 1990s reaching 130m metric tonnes in terms of anthracite equivalent by 1991.

South Korea's energy situation could become easier if the country discovers oil resources on its own territory. The chances of this happening depend chiefly on what happens in the continental shelf areas lying between South Korea and Japan where drilling for oil

should start in the not too distant future following ratification last year by the Japanese Diet of an agreement providing joint exploration and exploitation of the area.

The so-called Block Seven area covered by the Korea-Japan agreement is known to contain oil-bearing strata and, according to some private

estimates, could contain deposits of about 2bn barrels. Whether oil is actually present in the area, however, will not be known until the drilling programme begins. This could be before the end of 1978, depending on how quickly Japan and Korea agree on the choice of a single operating company to conduct exploration.

If the oil search in Block Seven yields disappointing results (or, alternatively, if it is indefinitely delayed by political or other problems) South Korea will be faced over the next few years with a rapid decline in the extent to which she can rely on domestic energy resources.

Production of anthracite coal (25 per cent of the country's total energy resources in 1977) is expected to fall gradually over the next decade as is consumption of firewood and charcoal for domestic heating (9 per cent of total energy consumption in 1977).

Hydro-electric power generation may rise substantially over the next few years since less than half of South Korea's hydro-electric potential has been developed so far. However, the total contribution of hydro-power to South Korea's energy needs is barely 1 per cent, so that even the doubling of capacity would make little difference to the overall situation.

The rather gloomy prospects for domestic energy resource development point, in the view of the Korean Development Institute, to an increase in the nation's reliance on imported energy resources from about 55 per cent of total energy consumption in 1977 to about 90 per cent by 1991 (assuming that the Gross National Product and the amount of energy consumed both grow at about 10 per cent per year through the 1980s).

The problem which faces South Korea therefore becomes one of developing imported energy resources other than oil to avoid a situation in which the nation could be held to ransom by oil producers. A second priority is to diversify sources from which the country imports crude oil; or, failing this, to enter into political or economic relationships with oil producers of a kind which might help to guarantee supplies.

In seeking to promote imported energy sources other than oil South Korea is placing heavy emphasis on nuclear power generation. The single nuclear power plant which is operating at present (the Kori 1 plant) has a generating capacity of 595,000 kW, representing about nine per cent of total electric power generating capacity but only about 1 per cent of overall national consumption of energy.

Four more stations are under construction, however, and contracts are expected to be placed (almost all the necessary funds

shortly for station number seven and eight. (These figures fail to add up because one nuclear plant project in the government's original programme was cancelled after numbers had been allotted to later plants.)

On the strength of this programme the Development Institute estimates that nuclear power may be supplying 10 per cent of South Korea's energy needs by 1986 and perhaps more than 15 per cent by 1991. This seemingly ambitious figure reflects the government's confidence that the development of nuclear energy will not be held up by the environmental opposition that has caused problems in the West (and in Japan where the difficulty of getting local government authorities to approve power station projects has forced the government to scale down its targets several times).

Nuclear

Heavy reliance on nuclear power will make it necessary for South Korea to sign long-term contracts for the supply of uranium instead of relying on "spot" purchases of enriched uranium as it has done up to now. The Ministry of Energy says it is "working on" this matter but the first long-term contracts have yet to be announced.

Next to nuclear power, South Korea expects to rely on coal imports as the main alternative to oil. The Government is starting to think seriously about ways and means of ensuring stable and long-term supplies from producers such as Australia and the U.S. but has not yet managed to sign long-term contracts with any major supplier.

There is a wistful awareness that China would be a natural source of imported coal if political conditions permitted. With or without China, South Korea hopes that coal imports will be meeting 17 per cent of its energy needs by 1986 and as much as 22 per cent by 1991.

Diversification of oil supplies became a highly-sensitive topic in Seoul in the aftermath of the Iran crisis and is still a matter on which officials at the Ministry of Energy would much rather say nothing at all. Iran was the source of roughly 10 per cent of South Korea's oil imports before its oil industry ground to a halt at the end of 1978.

The National Iranian Oil Company (NIOC), also happens to be partner with the Samsung group in the construction of South Korea's fourth major oil refinery, which had been due to begin production at the end of 1979.

The question about the Samsung-NIOC project which is bothering the Government is not whether money will be forthcoming to complete the project (almost all the necessary funds

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CONTINUED ON NEXT PAGE

Trade

Exports given every encouragement

التجارة

SOUTH KOREA was classified by a team of investigators from the U.S. House of Representatives Ways and Means Committee as one of the four "New Japanes", whose export growth poses a threat to the survival of some branches of American industry. Most people in Seoul would probably view this designation as a dangerous, if flattering, exaggeration. The value of Korean exports in 1978, at \$12.7bn, was roughly one-eighth of the Japanese export figure, while Korea's surplus with the U.S. at \$6.8bn, was less than one-tenth of Japan's. This does not alter the fact that exports are overwhelmingly important to Korea — probably more so than to any other developing nation with an economy of comparable size.

About 36 per cent of GNP is accounted for by exports, and the percentage has been rising since the late 1960s. Inevitably, therefore, Korea's economic strategy has been one of export-led growth (in contrast to the economic growth strategy followed by Japan in the first two decades after World War Two where the growth of industry was based, first and foremost, on supplying a large home market).

Exports are scheduled to grow more slowly over the next decade or so than they have done up to now. Exports, if they fulfil the Government's

target, will show 22 per cent increase this year over the 1978 level, which in turn was 27 per cent up on 1977. The annual growth rate will slow to 14 per cent in the early 1980s and 12 per cent in the later 1980s, but even at this rate Korea would still be increasing its overseas trade at roughly double the expected world average. In the period from 1965 to 1977 Korean exports grew at an average annual rate of 40 per cent.

One reason why South Korea's exports have grown so fast is that they started from a very low base. In 1965, the year that the present regime came to power, overseas sales were worth a mere \$87m. Even today Korea's exports on a per capita basis are less than half those of Taiwan (a little over \$200 compared with over \$500) and only about one-eighth of typical European levels.

Starting from a low base, however, does not provide the full explanation for Korea's subsequent export achievement. In a closely regulated economic system the Government has done everything possible to "make exports fly" as one U.S. banker puts it. This includes setting export targets for the economy as a whole and for individual overseas markets; encouraging industry to sell its products at lower prices overseas than those charged at home; and ensuring a supply

of cheap export credit (currently available at a basic rate of 9 per cent per year compared with the standard rate for commercial loans of around 22 per cent).

Another Government device to promote exports has been the creation of General Trading Companies on the Japanese model. These are set specific sales targets and in return enjoy certain financial and administrative privileges—besides the prestige of the much coveted "GTC" label.

The main threat to the further rapid growth of Korean exports is the rise of protectionism in western markets—a problem about which the Ministry of Commerce and Industry, which has direct responsibility for setting export targets, is not, indeed, the U.S., which is Korea's largest market (tallying 31 per cent of exports in 1977), maintains restrictions on Korean textiles, footwear and colour TV sets while Japan restricts silk products, leather footwear and many different varieties of fish. European countries maintain a patchwork of restraints on the import of Korean products, ranging from textiles to black and white TV sets (in the UK), watches, radios and semi-conductors (France).

Korea's strategy for dealing with protectionism is four-pronged. In the short term it

aims to increase the value-added content of restricted export items so as to earn more money within a given export volume. Korea's trading partners claim it also shows considerable skill in exploiting loopholes within export restraint agreements, but this, naturally enough, is not part of the officially admitted strategy for dealing with the problem.

A second way in which Korea hopes to prevent protectionism from damaging its exports is by shifting the pattern of its trade from light industrial to heavy industrial goods. Textiles, clothing and footwear, which accounted for nearly 50 per cent of Korea's total exports in 1976, are expected to be downgraded by the late 1980s to about a 20 per cent share, while the general category of machinery exports should increase from 15 to nearly 50 per cent of the total.

Korea is already beginning to promote exports of simple industrial plant such as cement and sugar refining equipment (these may be worth as much as \$1bn this year, according to the Ministry of Commerce and Industry, compared with the 1978 figure of around \$320m.) It is recognised, however, that the switch from labour-intensive, low technology light industrial exports to capital and skill-intensive heavy industry products will pose a serious chal-

lenge. Meeting the challenge will involve a massive import of technology (from Europe, the U.S. and Japan), as well as a shift of emphasis from short-term export financing of the kind now provided at preferential rates by the Korean banking system to medium and long-term export financing.

The third "leg" of the Korean Government's strategy for fighting protectionism involves a search for new markets. This is not a new priority as can be seen from the fact that export dependence on the U.S. has fallen from over 50 per cent in 1968 to just over 30 per cent today. Similarly Japan now takes only 21 per cent of Korea's exports, compared with 38 per cent as recently as six years ago. Korea has been successful in stepping up exports to the Middle East (mainly in the form of materials for the spectacular series of contracts won by the Korean construction industry) and is now looking hopefully at Latin America.

The Government has begun to



The fish market at Pusan. Fish products are among a long list of Korean exports that are finding difficulty in overcoming restrictions in overseas markets.

basis. Another round of import liberalisation is due in 1979 and more will follow in the early 1980s, bringing the degree of liberalisation (again on the official basis of the number of items freed) to over 90 per cent by the mid-1980s.

Proud

The Koreans are proud of the fact that they have acted "spontaneously" in starting to free their exports (unlike Japan, which had to be pushed into import liberalisation by external pressure). They hope that freeing imports will not only combat internal inflation and increase the competitive strength of Korean industry (the main economic argument in its favour) but also put Korea in a strong "moral" position vis-à-vis trading partners who are thinking of planning further restraints on Korean exports.

A snag about the liberalisation programme, to which the industry appears to be growing less rapidly than was at

one time expected because of the huge backlog of domestic demand, while exports of cement and of certain food products had to be suspended altogether during much of 1978 in order to keep the home market supplied.

The Ministry of Commerce and Industry cites supply shortages as one reason why Korean exports started 1979 at rates well below the levels needed to reach the target for the year, while imports were running at levels much higher than called for by the target. The Ministry also claims to be concerned about an overall cost differential of around 20 per cent between Korea and Taiwan in the manufacture of light industrial goods. Such facts provide a corrective to the alarmist view that Korean exports are poised to "take over" western markets. They do not mean that the Korean export drive is about to run out of steam.

C.S.

SOUTH KOREA'S FOREIGN TRADE, SM.

	1965-69	1970-74	1975	1976	1977	1978	1979
Exports	382	2,295	5,003	7,315	10,046	12,716	*15,390
Imports	912	3,394	6,674	8,405	10,485	14,524	*18,000
Balance	-520	-1,009	-1,671	-590	-439	-1,808	-2,360

*Target

Search

CONTINUED FROM PREVIOUS PAGE

have already been disbursed) but whether NIOC will be able to fulfil an undertaking to supply the refinery with oil. If it fails to do so Korea will find itself in the awkward position of having to look to another

producing country or to the international majors to cover the shortfall.

Problems with NIOC could cause the Government to think twice about the wisdom of developing the refinery industry on the basis of joint ventures

between local business groups and State-owned oil companies of producing countries.

Another project of this kind, involving the Hyundai group and Pertamina of Indonesia, is already on the stocks, however, and seems likely to go ahead

whatever the fate of the NIOC-Ssangyong venture.

Korea's heavy dependence on crude oil imports as an energy source has caused problems for the Government's price stabilisation campaign, besides constituting a worry in the longer-term future. The direct impact of recent increases in crude oil prices on the wholesale price index this year is estimated at 1.04 per cent while indirect effects are put at another 0.52 per cent.

These price effects have driven home the need to find some means of insulating the economy from fluctuations in world oil supplies, but there is no indication that Korea has an answer to a problem which has baffled almost all the industrial nations.

C.S.

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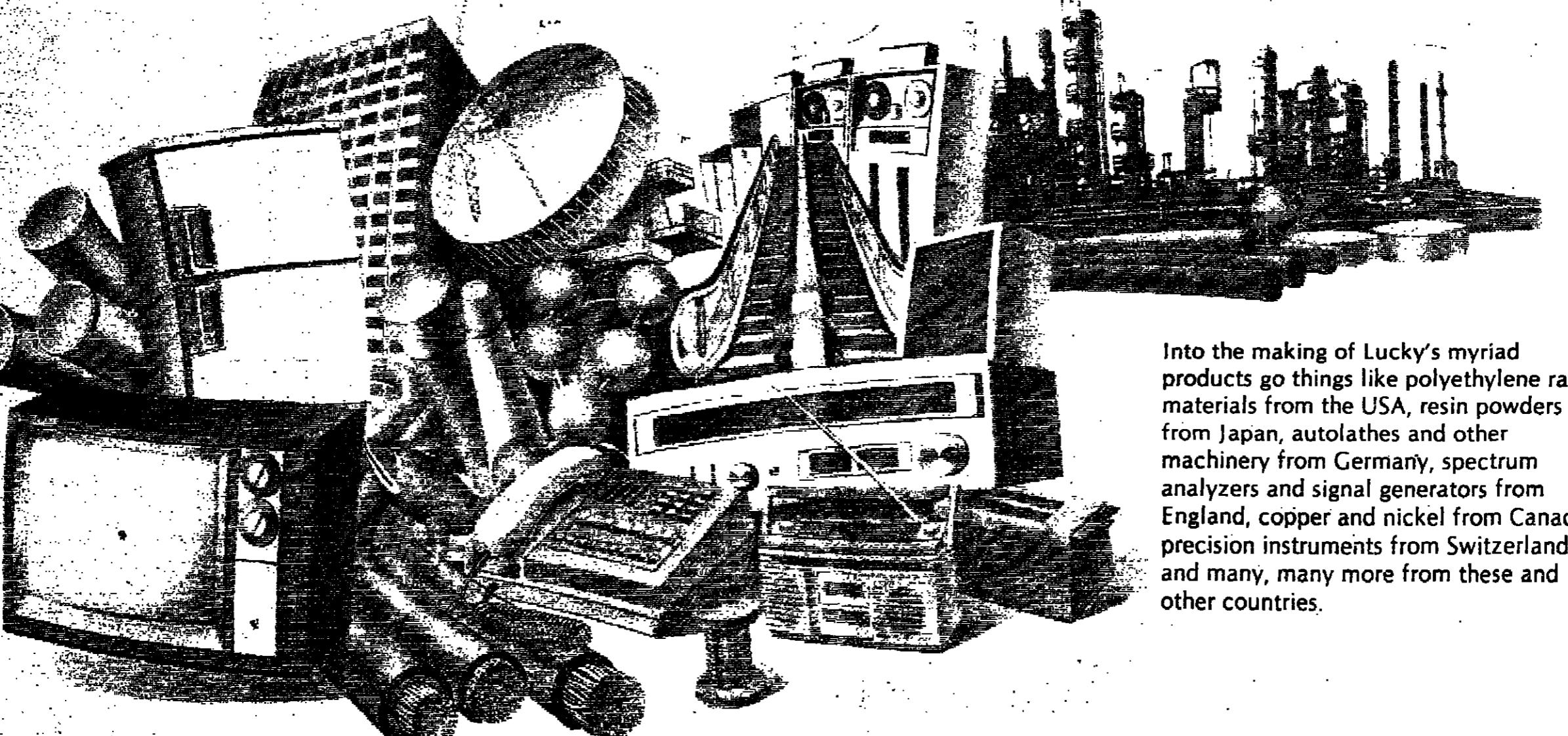
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SOUTH KOREA VIII

Agriculture

Planning pays off

KOREAN FARMERS have come a long way from traditional despondency in recent years, and are now faced with the new challenge of adapting themselves to a fast-industrialising society.

The country is now self-sufficient in rice, the staple food, the income gap between agriculture and industry has been substantially narrowed, and rural living conditions, including the provision of electricity, have been greatly improved.

But to keep up with the growing demands for meat, milk and vegetables, and to cope with a continuing drain on the farm labour force as a result of the country's rapid industrialisation, the Government is actively promoting the transfer to a new concept of farming.

Until the mid-1960s, South Korea, a traditionally agrarian society, had been suffering from chronic poverty on the farms. Every spring the farmers went through a period of hunger before their barley crop was harvested. The rice paddies were so poorly irrigated that they were mostly at the mercy of the weather. More than a third of the rural families, which accounted for 56 per cent of the entire population, were forced to subsist on farms less than 0.5 hectares each in size. To help feed its overcrowding population, the country had to import large quantities of rice and other food grains every year under the U.S. aid programme.

The fundamental problem was the limited amount of the nation's arable land—less than a quarter of the entire territory.

When the Government of President Park Chung Hee initiated a series of five-year economic plans in 1962, the agrarian sector was virtually ignored, while emphasis was placed on industrial development. But beginning with the third five-year plan which started in 1972, increasing attention was paid to agriculture, making rural development one of the plan's chief goals. Top priority was given to increased production of food grains, especially rice, which represented nearly a half of total food consumption by weight.

In 1975 the country succeeded in reaching self-sufficiency in rice, in 1977 an unprecedented 15.2 per cent increase in rice production was achieved, that year's total of 8m tons rice production moving from an average yield of 4.94 tons per hectare—the world's highest figure, topping even neighbouring Japan.

This success in boosting rice output is attributable in the main to the cultivation of high-yielding local strains—tongil, yushin and miyanya. The new varieties covered 70 per cent of the paddy fields last year, and this year, is likely to be 76 per cent.

Improved irrigation has also contributed to the increased rice production, as has better use of fertilisers and the widespread use of agricultural chemicals.

Apart from rice, South Korea has achieved self-sufficiency in barley, another important food grain. But the overall domestic grain supply was 25 per cent short of requirements because only negligible quantities of wheat and corn are cultivated at home. Wheat is an uneconomical crop in Korea because of its long growing season, which prevents the double cropping that is possible with rice.

Factor

Another important factor behind the increase in rice output has been the Government's price support policy, which is responsible for purchasing substantial amounts of rice and barley from farmers upon harvest every year at higher prices than it sells them to the consumer.

Although the accumulating budgetary deficit accruing from the price support programme has recently led to a call for its abolishment, the Agriculture Ministry intends to continue it for several years, if only for rice alone.

Ministry officials emphasise that the price support is vital in narrowing the disparity between urban and rural earnings, which is certain to widen again as industrial wages are increasing fast.

The Government is now encouraging farmers to increase their off-farm earnings, since there is a limit to rises in farm income. Although non-agricultural income—such as from off-season work at factories—rose to 28 per cent of the farmers' total annual earnings last year, it was still inadequate.

In 1975 the country succeeded in reaching self-sufficiency in rice, in 1977 an unprecedented

15.2 per cent increase in rice production was achieved, that year's total of 8m tons rice production moving from an average yield of 4.94 tons per hectare—the world's highest figure, topping even neighbouring Japan.

Another major problem facing Korean agriculture is the growing shortage of labour due to the continued migration to the cities. The rural population, which accounted for 55 per cent of the national total in 1965, was down to 31 per cent in 1978, and is forecast to decline further to 20 per cent by 1991.

As a result, the proportion of agriculture workers in the total working population dropped from 63 per cent in 1963 to below 40 per cent last year. What makes it worse is the fact that most of the city-bound migrants are young people.

The Government sees gradual mechanisation of farming as the only solution to this problem. To promote mechanised farming, the National Assembly last year passed a special law providing financial assistance in the

form of low-interest loans to farmers in buying farm machines.

But given the small size of unit farms, less than a hectare per household, and the irregular shape of paddy fields (only 18 per cent of which have been rearranged into regular patterns under a Government programme), mechanisation is far off. At present, as the principal farm machine there are 210,000 locally produced small power tillers—one for every 10 households.

The Government plans to increase their number to 500,000 by 1986. Meanwhile, it will also increase rice transplanters and harvesters (which are rare now), to 120,000 and 60,000, respectively.

Another new direction for Government's agricultural policy is the promotion of the livestock industry to meet the fast-rising demand for meat and dairy products. Last year, for the first time, beef and mutton had to be imported—mostly from

Australia. This year, meat imports are expected to increase to 72,000 tons, costing about 140m won.

The Government is extending loans and tax benefits to encourage livestock and dairy farming. There are a number of constraints, including vast amounts of investment needed to develop pasture land on the hillsides which abound in Korea and the need to import most of the required feeds. Nevertheless, the Government has a long-range plan to increase the population of imported beef cattle from the present 27,000 to 72,000 by 1991 and dairy cows from 194,000 to 558,000.

One unique feature of Korean rural progress is Saemaul Undong, the new community movement, launched in 1970 at the initiative of President Park. An integrated rural development campaign with the concepts of "diligence, self-help and co-operation," it has been

instrumental in galvanising the farmers into improving their living environment and productivity, then raising their incomes. Selected village committees select projects, which are implemented chiefly by voluntary labour with some Government assistance in the form of cash and building materials.

Saemaul Undong started with such simple projects as improvements to roofs and drains, moved on to infrastructure projects, including farm roads, small bridges, electricity and piped water, and then to income supplement projects such as joint livestock raising and sericulture. Its latest project is intervillage co-operation for regional development. The movement has now extended to urban neighbourhoods and factory workers to mobilise the entire nation in self-help projects at the local level.

Samuel Kim

Foreign investment

The rush slows down

FOREIGN DIRECT investment, which we found is large, growing and buoyant," explained Christopher J. Ball, president of Spirax Sarco Korea.

His company plans to start producing in June at its plant in Bupyeong, just outside Seoul. It hopes to export to other Asian countries from next year.

A. C. Wyatt, project manager of Lucas CAV overseas operations who is helping set up the CAV Korea plant in Changwon on the south coast, expressed a similar view. "As a multinational company, we had been looking for an opportunity of building a plant in Asia and saw in Korea the potential of future growth," he said.

Both Mr. Wyatt and Mr. Ball said that labour supply is no problem in Korea, but except for manual workers, labour is no longer so cheap.

A machine operator should be getting the equivalent of \$350 to \$400 a month, compared with a corresponding equivalent of \$550-\$600 in Britain, while the salary for middle management people, \$750 to \$800 a month including bonus and other fringe benefits, is about the same as in Britain.

Government officials maintain that the average wage level for semi-skilled workers in Korea is still a little lower than in Hong Kong and Singapore and about equal to or slightly above Taiwan rates. Thus Korea seems to be fast losing its once large edge over other Asian countries as the cheap labour market for foreign investors: this is the result of successive 20-30 per cent wage increases in recent years.

This is reflected in the sharp decline of new investment in

labour-intensive industries. Indeed the Government no longer approves foreign investment in textile industry because Korea's existing mills have trouble keeping up their exports because of quota restrictions by major importing countries.

According to Mr. Kang Shin-Joe, director general of the Bureau of Foreign Investment Promotion, the Government welcomes the following projects:

- Large-scale complex projects, such as metals, machinery and electronic equipment, which require high level of technology;

- Export-oriented projects which will contribute to exploring overseas markets;

- Projects which contribute to the development and effective use of domestic resources;

- Import substitution projects. Mr. Kang said the latest trend is investment in food processing, market control on a global basis, or patent rights;

- Investments that are beyond the capabilities of local firms, because of capital requirements, technological sophistication or market opportunities;

- Investments from the countries with little previous participation in Korean economy.

The minimum amount of foreign equity investment authorised is \$200,000, but for electronics and machinery industries, it is reduced to \$100,000. In the industrial engineering field \$50,000 is the minimum requirement.

South Korea does not permit any portfolio investment in the stock market by non-resident foreigners. Even for residents no profits can legally be repatriated out of the country.

Samuel Kim

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CHINA
SOUTH KOREA

SOUTH KOREA IX

On the last four pages of this Survey IAN HARGREAVES, who has recently visited South Korea's major industries, outlines the country's industrial strategy and looks in greater depth at individual sectors.

A second industrial revolution

SOUTH KOREA is now in the process of bringing about its second industrial revolution within 20 years. The first revolution involved dragging a war-ravaged country, lacking raw materials and with an economy based on primitive agriculture, to a semi-industrialised condition. That meant using cheap labour to develop light industries, notably textiles, and the simpler ends of the consumer electronics and metal fabrication industries.

Hardly had the country adapted to its success in selling goods such as cutlery, clothes and televisions before its economic theorists and industrial planners started to argue that Korea must rapidly start to reduce its dependence upon the light-labour-intensive industries upon which its success was based.

There are three main reasons for this decision: the awareness that Korean labour is rapidly pricing itself out of the cheap subject of four promotion plans

in the last eight years, is only now moving from the planning to the operational stage. The heart of the development is the Changwon integrated industry complex near Busan, where the dust is still settling on the 51 plants already complete, but where another 150 factories remain to be built.

These factories have already started to turn out machine tools, construction equipment, boilers, nuclear power station components, railway rolling stock, motor components, transformers, turbines, cranes, bearings; indeed, anything and everything in heavy industrial production, involving a growing number of technology-licensing agreements and less frequently joint ventures with advanced countries. Last year the machinery industry entered into 104 cases of technological inducement out of a total of 255 in Korea (there were 42 electrical agreements and 32 petrochemical—the other key

developing areas). In spite of the Koreans' urgent desire to strengthen their links with Europe at the expense of Japan, well over half the technology deals were with Japan and another 49 with the U.S. The Koreans want to make this switch partly to reduce their trade deficit with Japan but also to improve relations with Europe on the protectionist front and because some companies feel the Japanese have sold them outdated technology of limited value in export markets.

So far the development of the machinery sector is very uneven. But it is already clear that it will be dominated by seven companies, which by 1981 are expected to have aggregate sales of \$6.1bn in this field and account for 80 per cent of the industry's output. They are Hyundai Heavy Industries, Hyundai International Daewoo, Samsung, Daehan, Kangwon, and Hyosung.

More underlying problems are the shortage of skilled labour,

overcome if this and other industrial targets are to be met. In the short term a major difficulty is the shortage of investment funds in Korea because of the Government's anti-inflationary tight-money policies. Korean businessmen are used to high interest rates (18-20 per cent), but everyone is complaining about shortage of funds at the moment and some companies are talking of cutting back development projects by as much as 30 per cent this year if the reins are not eased. The shortage of working capital has also aggravated an always tight position in relation to component stockholding, which is an important reason for many industries' shortage of key raw materials in the early part of this year.

More underlying problems are the shortage of skilled labour, in spite of a recent decision to increase post-high school college places by 40 per cent last year. Employers are no longer

able to count on a thick pile of applications for every vacancy, and in an area like Changwon the high demand for new labour is a big anxiety for some companies. This shortage of labour is also the reason for high wage inflation as employers fight to retain staff. Contrary to the Japanese model, labour turnover in Korea is high—3-4 per cent a month, according to the Economic Planning Board. Even so, the typical male industrial wage is still only between \$250-\$350 a month, including bonuses. A function of the shortage of skilled technicians and scientists is the still inadequate level of spending on research and development—less than a quarter of that in European countries and something the planners know they must reverse quickly to underpin the industrial strategy.

Coupled with general worries about the price of oil and the sluggishness of the world economy, there is much to suggest that the second stage of Korea's industrial transformation will be harder to achieve than the first.

In pursuing its objectives, the Government's weapons are an armoury of import protectionism in the form of high tariffs against unwanted items (although the theorists of the planning Board are adamant that Korea is moving to an open and liberal trading pattern, more like that of Sweden than that of Japan), cheap loans for companies investing in preferred sectors, tax incentives and measures to encourage the inflow of foreign technology.

But probably more significant than all of these specific measures is the fostering of the nation's economic and industrial consciousness through, among other means, the Factory Saemaul (new community) movement. This campaign, modelled on an earlier successful drive to get farm labourers to work harder and more cooperatively, has, according to company directors, produced dramatic improvements in labour productivity, in return for which companies have invested heavily in welfare and recreational facilities for their staff.

Saemaul is an important part of a set of national attitudes stemming from the common desire to be economically superior to North Korea, which has so far kept South Korea free of labour troubles. Although a classically capitalist economy, great effort is expended by the Government in preventing ostentatious display of wealth (it is common for plant managing directors to wear the same uniforms as their operatives) and in attempting to reduce income differentials.

"We are working for the next generation," is probably the most common philosophy one hears expressed in South Korea and it explains the willingness of most to accept the six or seven day week of 10-12 hour days. It remains to be seen whether the sheer effort and determination which has got Korean industry through its first stage of advance will be sufficient to power it through the second.

Textiles

Still a major force

SOUTH KOREA'S industrial leaders have a habit of referring to their textiles industry as if it were in a state of decline. In the glory of a former light industrial age soon to be forgotten in the present generation's move into heavier and more technology-intensive sectors.

This is misleading. In 1978, textiles exports accounted for 31 per cent of the country's total sales of goods abroad. At \$3.98bn, the industry's export sales remained Korea's biggest foreign exchange earner and the key provider of capital for diversification into heavy, capital-intensive industry. It also employed 20 per cent of the workforce.

As the table shows, the Government expects the industry to continue growing, enabling the value of its exports in real terms between 1978 and 1981. The industry's own assessment, as disclosed by the Korean Federation of Textiles Associations, is to export goods valued at \$6.5bn (at current prices) in 1981 and \$10bn in 1986.

In that year, if the Government's six-year plan unfolds as intended, Korea will be exporting \$50bn worth of goods. So the textile share will be down to 20 per cent of that total, but, according to the association, the volume of textile exports will still have lifted Korea from sixth place in the world industry rankings to number one with 10 per cent of world textile exports. Some decline.

The reason for the sense of decline, which is strongly felt

despite rising wage costs. That strategy involves switching to higher quality and higher added value goods in restricted markets and pushing more volume into undirected markets.

Last year, quota-area countries took 49 per cent of Korea's textile exports (\$985m to the U.S. and \$735m to the EEC) and \$3.98bn, the industry's export sales remained Korea's biggest foreign exchange earner and the key provider of capital for diversification into heavy, capital-intensive industry. The Middle East is of growing importance.

This year, garment manufacturer will account for 62 per cent of exports, in 1983 for only 50 per cent, with fabrics taking 37 per cent and yarns 13 per cent. Fabrics then, and principally synthetic fibres, represent the real growth sector.

The preference for a future emphasis more on chemical than natural fibres is also based on the relative economics of the Korean industry compared with other developing countries. All of Korea's wool and cotton are imported, whereas Korea's growing chemical industry (described elsewhere in this survey) means that textiles companies will not be in the position for much longer where the chemical fibre manufacturers rely on foreign suppliers for 70 per cent of their monomer, 60 per cent of their caprolactam and all of their TPA.

South Korea's industrial planners feel certain that the days when the country's industrial economy could work merely by rapidly processing for re-export the raw materials of others are rapidly vanishing.

The synthetic sector of the Korean textiles industry is also its most modern. In the worsted/cotton companies, 30,600 spindles (almost 1 per cent of the total) are over 20 years old, which is twice the accepted level of durability. In 1976, 31 per cent of spindles and 35 per cent of looms in the cotton industry were over this 10-year limit and the situation is thought to have improved little since then. Cheil Wool Textile, part of the Samsung group, says the average age of its spindles is seven-eight years and the company is now engaged in a five-year modernisation programme.

Cheil, biggest of the 27 wool textile companies in Korea, with about a 45 per cent market share, provides an interesting counter trend to the general strategy of the industry's move away from garment production. Cheil is still expanding fabric production, but is also starting to make garments with the aim of this sector accounting for 40 per cent of its \$300m projected sales in 1983.

Mr. S. B. Lee, the company's president, admits that the requirement for an extra 35,000 workers, mainly women, in the next five years, is rather daunting in the current Korean labour market. The company's reasoning is that, tied to restricted U.S. and European markets for 80 per cent of its woollen and worsted business, garment manufacture, with the right attention to fashion, offers high added value opportunities.

One market which does look good for the South Korean manufacturers is their own. Rapidly rising real incomes mean that per capita consumption of textiles in Korea, which has risen 13 per cent in the last two years, is expected to double again in the next eight—to 16.7 kilogrammes per head in 1986. This is equivalent to the level of UK textiles consumption in 1973. The result is that by 1986, 43.5 per cent of the South Korean industry's output should be sold in its home market, compared with 33.4 per cent this year.

PRODUCTION AND CAPACITY OF MAIN TEXTILE PRODUCTS

Product	1976	1977	1978	1981	1986	1991
Chemical fibre						
Annual production (000 tonnes)	354	395	463	736	1,033	1,352
Capacity (tonnes per day)	1,110	1,120	1,380	2,100	2,950	3,860
Self-sufficiency ratio of fibre output in synthetic textile industry (%)	82	82	85	90	95	98
Nylon F						
Production (tonnes)	71,800	82,600	98,500	147,000	206,000	269,000
Capacity (tonnes per day)	1,010	1,130	1,380	2,100	2,950	3,860
Polyester F and SF						
Production (tonnes)	133,800	158,000	205,300	314,000	440,000	575,000
Capacity (tonnes per day)	380	450	590	900	1,260	1,640
Acrylic SF						
Production (tonnes)	102,000	107,300	105,800	182,000	255,000	333,000
Capacity (tonnes per day)	290	310	360	520	730	950

Source: Ministry of Commerce and Industry—latest estimates.

KOREAN TEXTILE EXPORTS 1976-1991

	1976	1977	1978	1981	1986	1991
				(000 tonnes)		
Natural fibre	140	140	222	247	300	366
Man-made fibre	258	302	367	469	611	794
All fibres	398	442	589	712	911	1,160
	1976	1977	1978	1981	1986	1991
Total value of exports	2.74	2.9	3.56	4.86	6.1	7.3
Fibre and yarn	0.23	0.33	0.38	0.52	0.77	1.4
Fabrics	0.66	0.68	0.99	1.31	2.28	2.92
Finished garments	1.8	1.89	2.19	2.77	3.05	3.46
Share of product category in total exports	1978	1981				
	11%	20%				
	28%	40%				
	61%	20%				

Source: Ministry of Commerce and Industry—latest estimates.

Challenger

<p

SOUTH KOREA X

Steel

Public ownership debate

PUBLIC DISAGREEMENT between businessmen and the Government is still rare in South Korea; a country characterised by a remarkably high degree of unanimity about national economic and social objectives.

But there was an exception in the closing months of last year, when the country's three largest industrial conglomerates, Daewoo, Samsung and Hyundai, all made it clear with varying degrees of vociferosity that they would like permission to undertake the construction and operation of Korea's second integrated steel mill.

In the end, the Government ignored their bids and said that the number two mill, like number one, would be owned and operated by the Pohang Iron and Steel Company (POSCO), a company formed in 1968 with 50 per cent Government stake and 50 per cent from a mixture of banks.

The Government was, of course, only following a general steel industry trend for public ownership of what is a highly capital-intensive industry, besides reiterating its confidence in the ability and experience of POSCO, which even the rival conglomerates agree produces steel of acceptable quality.

There were many reasons for the private sector wanting a major stake in the future of Korea's steel industry. One is the industry's profitability, with POSCO returning a net surplus of \$40m last year against \$32m in 1977; a second is the attractiveness to these conglomerates, which are all heavy steel consumers, in having guaranteed supplies at controllable cost and quality.

But a more general and underlying feeling among the big industrial groups is that the Korean Government is being too cautious about steel and ensuring by its caution that the country will remain a net importer of steel for the foreseeable future.

In the private sector, the rebound over the second steel mill

has not deterred the big companies from moving forward. ICCC, which is one of Korea's 12 general trading companies, last year took over Union Steel, whose 0.7m tonnes of crude steel output last year made it the largest private sector steelmaker. In the same year, Hyundai bought the small Inchon Iron and Steel company and Kumho, another general trading conglomerate, took over Kukdong Steel. Hyundai plans to increase the output at Inchon from 380,000 tonnes to 1m tonnes, and Union Steel has plans for a new 500,000 tonne-per-year development.

These groups probably retain the hope that if they can acquire substantial experience of steelmaking they may be in the running when the Government comes to authorise a third coastal integrated steel complex, perhaps towards the end of the next decade. Meanwhile, Hyundai, at least (as described in the article on construction), is also showing interest in taking both a financial and operational stake in the steel industries of other developing countries.

This increase in private sector steelmaking, which mainly uses electric arc technology and turns out reinforcing bar, pipes and galvanised products, does have the effect of introducing greater flexibility into South Korea's steel strategy in that the private companies may well be able, if their plants are profitable, to extend production facilities beyond existing targets. The fact that by 1991 Korean experts are predicting a more than 6m tonnes a year shortfall between domestic production and demand will clearly encourage this trend.

So the world steel industry does not have to worry too much in the next ten years about being swamped by Korean steel exports, in spite of the recent dramatic statement by President Park Chung Hee that by 1986 South Korea would be the world's tenth largest steel producer.

There will, of course, be some exports during this period, partly because of POSCO's need to earn hard currency to finance its debts and future development and partly because the corporation's uneven product range means it is unable to meet

domestic demand (especially for steel plate, coils for re-rolling and for special alloy steels) while having disposable surpluses of other products. Last year, Korea exported and imported 1.3m tonnes of steel products. The country's exports thus accounted for less than 2 per cent of world steel trading.

In the past the planners have shown a tendency to underestimate Korean steel demand, which is now expected to reach 10m tonnes this year, three years ahead of schedule, and to continue growing at around 24 per cent a year. The more rapid than expected growth of the construction industry has been partly responsible, and this year Korea expects to import 160,000 tonnes of reinforcing bar to satisfy a 30 per cent increase in demand for the product. Total domestic demand for reinforcing bar is put at 1.8m tonnes this year.

Some steel products, such as girders, steel rails and sheet piling, are not currently produced in Korea at all and so will continue to be imported for the foreseeable future. There is also a severe shortage of many special steels, although one important gap for the electrical industries will be filled from September of this year.

The Government says that more rapid expansion is impossible because of shortages of skilled labour and difficulties in raising the vast capital sums required.

South Korea's brushes with steel protectionism, with the EEC, the U.S. and Australia, have also cooled the ardour for

steel exports. In 1978, exports to the EEC are provisionally estimated at less than 100,000 tonnes, against a permitted voluntary quota level of 230,000 tonnes.

The Koreans feel that it is not worth upsetting Europe over steel at a time when they are urgently trying to foster trade and technology links with the continent as part of the switch from economic dependence upon Japan. Steel imports from the EEC, meanwhile, have been allowed to grow to 175,000 tonnes in 1978 as part of the same strategy.

When POSCO does export,

however, its prices are highly competitive—10 per cent below those of Japan. This reflects lower wage costs and a high level of productivity, which

POSCO now puts at 437 tonnes per man year, compared with Japan's 445. European productivity is generally lower, although precise comparisons are impossible because of different systems of counting employees.

At POSCO, there are 4,500 subcontracted workers who are not taken into account in the productivity calculation.

Domestic steel prices are controlled directly by the Government and for much of last year

were running above international levels (steel plate, for

example, was \$300 a tonne), although recent improvements in the world steel market have brought domestic and international prices closer together. POSCO, as would be expected, pitches its export prices below the prevailing international rate and has exported to 31 countries, which represents a policy of spreading a small quantity of exports thinly in order to gain experience of a large number of export markets.

Dependence

In the field of non-ferrous metals, South Korea's present goal is one of self-sufficiency, reflecting, as with steel, a heavy dependence upon imported raw materials. Substantial imports of aluminium and lead ingots are expected to continue for some years, although production of electrolytic copper and zinc (the latter is one of Korea's few basic metal products for which there is an adequate supply of domestic ore) is now just about equal to domestic demand. In the case of refined lead, imports will continue in spite of domestic ore resources because domestic demand remains inadequate to justify investment in a large-scale refining project.

Motors

Demand takes off

KOREAN MOTOR INDUSTRY PRODUCTION AND EXPORTS 1967-1978 (UNITS)

	Cars	Buses	Trucks	All vehicles	motor exports
	total	exports	total	exports	production
1967	4,883	—	236	—	1,385
1975	18,509	—	3,868	—	14,973
1976	25,605	558	3,468	36	19,219
1977	42,284	5,073	5,453	6	35,263
1978	85,693	25,638	7,279	67	63,446

Source: Ministry of Commerce and Industry

the 2m units 70 per cent will be cars, 20 per cent trucks and 10 per cent buses and special vehicles.

In the present situation this

throws a heavy responsibility on Hyundai, whose share of output between now and 1981 is expected to increase from 50 to 60 per cent. The Pony remains the only genuinely Korean car and it accounted for all but 7,000 of last year's motor vehicle exports.

Hyundai is in the process of extending its plant at Ulsan on the south coast of the Korean peninsula to raise capacity to 250,000 units a year by 1981. Of these 200,000 will be Ponies, 20,000 Mark IV Cortinas and Granada kits and 30,000 truck and bus exports.

Today the picture is transformed. As per capita GNP passed the critical \$1,000 mark last year (it is projected at \$1,493 this year) domestic demand took off. There is now a six-month waiting list in Korea for delivery of the country's only home-bred car, the Hyundai Pony.

This is despite continued heavy taxation on cars, which has come to seem more necessary as the streets of Seoul have progressively become choked with traffic. Half the Pony's \$3,000 retail price in Korea is tax and from April onwards the annual car tax for a Ford Granada (assembled from kits by Hyundai since the end of last year) will be \$3,760 and \$507 for the Pony.

Pony production will continue

to be concentrated at Ulsan, but

it remains to be seen whether

the new designs which Hyundai and its Italian design consultant Mr Giorgotto Giugiaro now have on the drawing board will be ready in time to go into production in the new plant. These designs centre around a slightly larger basic engine than the Pony's 1,300 cc Colt equivalent and seem most likely to result in a car designed to present a challenge to the Ford Cortina range. Later this year the Pony will also be available in a 1,600 cc version.

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SOUTH KOREA XI

Electronics

A challenge to Japan

NOWHERE IN South Korean industry is the sense of tread-
ing in Japanese footsteps more
strongly felt than in the electronics business.

Korea's electronics companies began life in the late 1950s by providing cheap assembly bases for Japanese (and U.S.) firms. Since then they have moved into the middle ranges of sophistication in consumer electronics, offering a big challenge to their mentors in the manufacture of televisions, radios and low-
price audio equipment.

The industry's export targets have also been constrained in line with the rule of thumb theory that Korean electronics is ten years behind Japan. In 1976, the Japanese exported \$9bn of electronic goods. In 1986, the Koreans are programmed to achieve the same figure.

Many in the industry, however, believe that it is too much to expect the electronics companies to be contributing 20 per cent of total Korean exports by 1986. In spite of their record of averaging 37 per cent a year growth between 1968 and 1977, Mr. Sung-Chan Park, president of Gold Star, the Lucky Group company which leads the Korean electronics industry, believes the comparison with Japan does not apply this time because the Korean population is three times as small, creating difficulties in advancing to crucial economies of scale, and components.

I should say that the most optimistic projection would be for the industry's exports to grow to 10 per cent of the country's total by \$5bn by 1986, but you never know whether the Government might help us to do better. We shall certainly be aiming for their target," he says.

One thing the electronics companies urgently require of

the Government is the opening of what they believe will be floodgates in the domestic colour television market. Some in the industry are hopeful that the Government will relax its position and permit colour TV broadcasting later this year, although current political worries about stimulating consumer demand at a time of high inflation suggest this could be wishful thinking.

The Korean colour television industry, still only in its third year, has run into deep problems because of the recent decision by the U.S. to impose a quota of 288,000 Korean sets in the 17 months from February. This was a reaction to a pattern of export growth characteristic of Korean electronics: 1976: zero; 1977: 20,000 sets; 1978: 500,000 sets. The three Korean manufacturers (Gold Star, Samsung Electronics and Taihan Electric Wire) have also been constrained in line with the rule of thumb theory that Korean electronics is ten years behind Japan. In 1976, the Japanese exported \$9bn of electronic goods. In 1986, the Koreans are programmed to achieve the same figure.

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Construction

Overseas contracts soar

LAST YEAR South Korean construction firms provided their country with an embarrassment of riches as the pace of their expansion overseas continued to outstrip all forecasts.

Less than a year ago, the Seoul Government was talking about overseas construction contracts worth around \$4bn in 1978 against \$3.5bn the previous year. In fact, the figure has turned out to be well in excess of \$8bn and to support this massive invisible earnings operation, the Korean builders shipped out another 50,000 or so workers—taking the total to almost 100,000.

Given that the Korean main market—the Middle East (accounting for around 70 per cent of business), is generally considered to be in decline from the formidable building boom of the mid-1970s, this represented a remarkable performance. It did, however, cause problems. At a time when domestic inflation was being pushed upwards by a variety of cost and wage push factors, the unexpected increase in the money supply from foreign exchange earnings caused the Government to impose tight limits on companies' freedom to convert foreign earnings into local currency.

Although these limits have now been officially relaxed, partly in recognition of the liquidity difficulties they caused within some of Korea's biggest industrial enterprises—the spirit of the policy persists. The Koreans are being encouraged not to bring their remittances home, but to invest them in projects of the countries where the construction companies are active. This policy reflects in turn the Government's desire to see large sections of the country's exports, whether visible or invisible, tied to agreements with raw materials rich countries. Thus Hyundai Construction, well over the biggest of the Korean building firms, is negotiating a stake in Saudi Arabia's steel and aluminium industries by offering to contribute both capital and then operating personnel for the plant when it is complete.

This type of development makes sense from other points of view, too. The Koreans are well aware that the best times have indeed passed for the Middle East construction industry and that in future pure civil engineering operations related to infrastructure development will proceed at a more modest pace. This decline has obviously not been helped by instability in Iran, where Korean contractors have about 5 per cent of their business.

But this slowdown does not equally affect the more sophisticated end of the construction industry: the building of plant for the metals, energy, and chemical industries. Here, the Koreans know that they are at a disadvantage compared with their competitors from Europe and the U.S., who are called in at the beginning of such projects

for technical advice and whose specialist companies in such fields as turbine manufacture then take the high added-value portion of contracts.

Mr. C. W. Choi, chairman of the Samwhan building company and also president of the Construction Association of Korea, says there must now be a big campaign by the Koreans to identify themselves as "development partners" rather than competitors with both the suppliers of high technology and the countries where the projects are taking shape.

This means that the relationship between the big construction companies and their domestic engineering and heavy industry affiliates is of increasing importance as the Koreans move towards a position in the 1980s, when they hope themselves to be bidding for foreign contracts on an independent turnkey basis.

According to Mr. Chang, the former military man who is now President of Hyundai Construction, this inter-family relationship, which even includes a shipping company combined with his own employees' high productivity, is already allowing Hyundai to undercut other Korean contractors by a steady 15 per cent. He is predicting an increase in Hyundai Construction's rate of orders this year from \$2bn in 1978 to \$2.4bn and says the company has already mapped up eight major contracts this year, with another 20 under negotiation.

But Hyundai Construction's leadership will not be retained automatically. Hyundai International split from the Hyundai group five years ago after a disagreement between Mr. I. Y. Chung, its chairman, and his elder brother, Mr. V. Y. Chung, who started the Hyundai group and is still its chairman.

Hyundai International does not figure yet in the construction industry's top ten, but as an integrated manufacturer and assembler of heavy industrial projects it is being styled to capitalise on the general construction-heavy industry strategy already described. Likewise other major groups, such as Daewoo and Samsung, have linked construction with heavy industry activities, and a company like Samwhan, which started life in 1948 as a pure construction outfit, is today stressing the resources of its engineering affiliate. One construction firm, Kyungnam, has bought a small U.S. consultant engineering business in order to sharpen up its technological and planning capabilities.

The conglomerates are also in a position to use their rela-

tionships with foreign advanced technology companies formed by their heavy industry divisions as a bridgehead for similar co-operation on overseas and domestic plant contracts. Daewoo Heavy Industries has over 20 such links, Hyundai International lists more than 40, and such technology agreements are rapidly proliferating in fields as diverse as nuclear reactors, diesel engines and dredging equipment.

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LEADING ELECTRONICS COMPANIES

	Main products	Output 1978	Exports 1978	Employees	Market share %
	Consumer products: affiliates in communications, semiconductors	\$m	\$m		
Gold Star (Lucky Group)	Consumer products, affiliates in semiconductors, tubes, components, communications	185.6	96.6	10,000	8
Samsung Electronics	Consumer products, affiliates in semiconductors, tubes, components, communications	170.8	98	9,000	7
Motorola Korea (U.S.-owned)	Integrated circuits, semiconductors, transistors	105	102	5,000	6
Tai Han Electric Wire	Consumer products, cable, communications	82	34	8,350	3.5
Signetics Korea (Philips)	Integrated circuits	71	71	3,010	3
Aman Industrial	Integrated circuits, transistors, watches	70	68	4,500	3

Source: MCI (estimates)

COMPOSITION OF 1979 EXPORT TARGET

	SEMICONDUCTORS AND INTEGRATED CIRCUITS	B/W TELEVISION	RADIOS	TAPE-RECORDERS	AMPLIFIERS	TRANSCIVERS	COLOUR TV	COMPONENTS	OTHER	%	1978	1979	1981	\$ current prices
Consumer electronics	23	12	14	9	6	2.5	2.7	14	15.8	bn	bn	bn	bn	bn
Total output	0.94	1	1.52	0.21	0.1	1.12	1.31	1.24	1.8	1.12	1.31	1.52	1.44	1.44
of which exports	0.64	0.7	1.09	0.24	0.2	0.6	0.9	1.26	1.8	0.6	0.9	1.32	3.57	3.57
Total output	0.21	0.34	1.7	0.1	0.45	1.12	1.31	1.24	1.8	0.21	0.34	1.7	3.44	3.44
of which exports	0.1	0.2	0.45	0.1	0.45	0.6	0.9	1.26	1.8	0.1	0.2	0.45	2.24	2.24

Source: Electronics Industry Association of Korea

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SOUTH KOREA XII

Shipping and shipbuilding

Sprint strategy a miscalculation

SOUTH KOREA's shipbuilding industry represents, arguably, the gravest miscalculation so far by the country's industrial planners. The strategy to sprint within 15 years to second place in the world industry behind Japan—although still not necessarily unattainable—has resulted in a string of serious financial problems.

Two of the companies licensed to build important new plant, Koryo and Korea Shipbuilding and Engineering, found the strain of financing construction at a time of profound recession in their existing businesses too much and their part-complete facilities have now been passed over to the more secure foundations of two of Korea's biggest conglomerates, the Samsung and Daewoo groups respectively.

Meanwhile, Hyundai Heavy Industries, which set the Korean industry on the road to international status, has had to cut its shipbuilding workforce from 30,000 to 20,000 in the last two years as it has struggled, in spite of highly competitive pricing, to fill its huge docks which are capable in theory of swallowing 1.6m dwt of orders per year.

In 1978 Hyundai had to be satisfied with output of 29 vessels aggregating 693,000 dwt and its order book in mid-March comprised 33 vessels totalling 731,800 dwt.

During this difficult period, Hyundai has been able to draw strength from the rest of the group and the 10,000 men no longer employed in shipbuilding have been comfortably absorbed into other heavy industrial activities, such as steel fabrication for land construction work, in the vicinity of the Ulsan yard. In Korea, there is no shortage of demand for experienced steelworkers and outfitters.

Mr. C. H. Cho, the Hyundai Corporation director responsible for ship sales, also says the yard has struggled resolutely to maintain profit margins in its tenders for new business where Hyundai has frequently undercut its competitors by as much as one-third and still undercut Japan by 10 per cent. But he admits that in practice the margin frequently has vanished under the tide of rising costs once the contract has been started.

No financial figures are published for Hyundai Heavy Industries, which is a part of the Hyundai group not yet quoted on the Seoul stock exchange.

Meanwhile, Hyundai continues to try to improve its range of technical skills and versatility as a shipbuilder. About 20 engineers were sent for training overseas last year as part of the yard's build-up to offering its services as a builder of liquid natural gas carriers in association with Gaz-Transport and Technigaz. So far, however, the yard has not won an order for this most sophisticated type of merchant ship.

On a more mundane level, the shipyard, like its neighbouring Hyundai Mipo ship repair yard, is also working hard at improving quality, especially on the outfitting side. Workforce at both yards have been criticised by Western equipment suppliers over the quality of on-site installations.

Mr. Moon-Doh Chung, president of Mipo, believes his yard has now established firm quality control on basic repair jobs. "You have to remember, we are still new, so that for certain complicated works we may require a little more improvement." He adds that other deals now under negotiation with Australia and Northern Europe have been pitched closer to theoretical.

Mr. Woo Dong Cho, chairman of the shipbuilding company and of the parent Samsung Heavy Industries, says the company has no regrets about entering shipbuilding, which he is confident is a strategic industry for the economic advance of both Korea and Samsung. However, the company has gone back to the drawing board on the second stage of the yard, originally due for completion in 1980.

It could still emerge as a 500,000 dwt VLCC dock (with the perhaps more useful possibility of building two Panamax carriers side by side), but it is equally likely to turn out to be the size of the existing dock. "We have no firm commitments," Mr. Lee says.

Potentially the most exciting feature in Korea shipbuilding because the least defined, is the Okpo Island yard, designed by Korea Shipbuilding and Engineering to take that long-established company into the big league of world shipbuilders

work of the Koryo company, but soaring construction costs created cash-flow problems and in 1977 the Samsung group, Korea's oldest and perhaps strongest large industrial and trading group, took over the project as a substitute for its own plan to build a mainland shipyard.

Early last year, Samsung signed an agreement with Burmeister and Wain of Denmark and IHI of Japan for technical assistance in running the yard and in training workers. About 1,000 men are now on site and at work on the company's first contracts.

These orders are from Indonesia, with which Korea has close ties, for two 15,000 dwt oil products carriers and the yard has also won an order recently for a 20,000 dwt products carrier from Pan Korean shipping.

Mr. Eun Taik Lee, President of Samsung Shipbuilding, admits frankly that the \$20m contract figure for the Indonesian deal is a loss-making figure. "We will have big losses with these ships, but we have to do it because as newcomers to the industry we must gain experience." He adds that other deals now under negotiation with Australia and Northern Europe have been pitched closer to theoretical.

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THE MAJOR SHIPYARDS

	Ownership	Nominal capacity	Prospects
Hyundai Heavy Industries	Unquoted company, part of Hyundai group. Sales handled by Hyundai Corporation	1.6m dwt per year	Orderbook of 731,900 dwt
Korea Shipbuilding and Engineering (KSEC)	Long-established independent company	700,000 dwt per year	Orderbook of six months' work
Daewoo Shipbuilding and Heavy Machinery	Daewoo conglomerate took over Okpo Island yard construction from KSEC last year. Due for completion 1980.	Largest shipbuilding dock in world with 1.25m dwt capacity	Uncertain, but likely to involve heavy non-marine content
Samsung Shipbuilding	Samsung conglomerate took over Koje Island yard project from Koryo. Almost complete	Single 100,000 dwt dock, plus plan for second dock of undetermined size	Orders for four products carriers

with a giant 1.25m dwt construction dock.

The burden proved too great for the limited means of KSEC, already suffering from the industry's slump, and the Government spent some time looking for an alternative operator. Both Samsung and Hyundai looked at Okpo and decided it was not viable only to find that their arch-rival, the younger and some say more ambitious Daewoo group, was prepared to take it on.

Formally, the ownership is shared between Daewoo (51 per cent) and the Korea Development Bank (49 per cent), but it would be normal for the bank's share to be sold to private investors once the project is established. Daewoo says it expects its own investment to amount to \$400m and the bank has put up \$140m as paid-in capital for what is in effect an interest-free loan to cover Daewoo's basic construction costs until 1981. Most of the rest of the cash is coming in the form of guaranteed loans

associated with foreign equipment purchases.

Characteristically, Mr. Kim Woo Choong, 41, chairman and founder of the Daewoo group, has chosen a finance man to head the new venture. Mr. In-Ki Hong, president of the recently titled Daewoo Shipbuilding and Heavy Machinery, spent 16 years with the Korean Finance Ministry, and via the bridgehead of an economics refresher course at Harvard, joined Daewoo in 1977 to run its Orient Securities affiliate.

He took up his present job five months ago and is the same age as Mr. Kim. Last year, the Daewoo group had exports of \$850m and it intends to boost this figure to \$1.2bn this year.

Okpo will not contribute to exports in 1979. The takeover process has delayed construction work and the basic shipyard facilities, designed by A and P Appleford of the UK,

now will not be complete until the end of 1980. Daewoo Development, the group's con-

struction company, has also taken over site operations at Okpo.

By 1982, Mr. Hong says that Okpo, now a fishing village, will have a population of 100,000 and his company a workforce of 20,000 Koreans. He has already started to recruit and Daewoo will shortly open its training school at Okpo to create 1,200 skilled men a year. "The men at Okpo will be the elite and they will have the most comfortable and hospitable environment possible," he says.

But the real question is: what will Okpo build, given that the 1.25m dwt tanker, which looked a certainty when the yard was conceived pre-1973, is still no more than a figment of the wider shipowners' imagination?

For a start, Mr. Hong says, the workforce will engage in the structural steelwork and crane construction necessary to equip Okpo itself. It will then become the company's answer to Changwon.

This is hardly a modest statement for Changwon is the heart of South Korea's heavy industrial future—a site for 191 heavy machinery works still being carved out on a 12.5m square metres site 50 km inland from the major port of Busan.

Mr. Hong says Daewoo will build on its existing technical agreements with such companies as Brown Boveri of Switzerland, ITT and Babcock to produce a wide range of heavy industrial plant and equipment, using the huge concrete dock as a steel fabrication yard. As demand emerges it will also build ships, but it is important to note that so far the company has not signed any technical agreement with a shipbuilder.

The uncertainty over Okpo's eventual status in the pure shipbuilding industry and of Samsung Shipbuilding's second phase injects a large measure of uncertainty into South Korea's future shipbuilding capacity, still officially intended to increase to 4.25m grt per year by 1981, compared with 2.7m grt pre-Okpo and Samsung.

That 4.25m figure is what has given the OECD shipbuilding working party such anxiety in the past two years because it represents about one third of the total volume of orders fore-

KOREAN SHIPBUILDING: OUTPUT AND PROJECTIONS

	1976	1977	1986	1991
Construction for domestic owners	50	50	555	1,012
Ship exports	634	618*	1,548	3,135
Total ship output	684	776*	2,102	4,132
(% share of world market)	1.9	3.4	6	7.5

Sources: Ministry of Commerce and Industry (1976-78 figures). * Provisional

As the table shows, this has expanded steadily and is expected to reach 6m grt by 1984—roughly the size of the fleet now registered in Sweden. South Korea has a strong force of merchant seamen—34,000 men—of whom only half now serve on Korean vessels.

Although South Korean shipping companies, like those in many other countries, got into widespread financial difficulties last year necessitating an \$80m Government injection to finance debt re-scheduling, the Government is doing what it can to help. It has improved terms for export credit from 75 per cent to 85 per cent. Repayment periods are usually between five and 10 years and interest rates in line with the international level for the industry at 7 to 8 per cent. There are also plans to subsidise the price of steel plate, the industry's main raw material.

Under the terms of the fourth shipbuilding promotion plan for 1979-80, recently announced, \$25m is to be made available to finance this policy and the Government expects this to result in orders for 213,497 grt of vessels, of which 186,000 grt will be ocean-going types. Under the plan, Hyundai expects to get 11 vessels totalling 133,590 KSEC two at 34,584 and Samsung three small vessels totalling 6,050 grt. The rest will go to the country's six medium-sized yards (headed by Daedong and Donghae) and its 111 small yards.

Another target is to increase the localisation ratio of ship construction materials from its present level of not much more than 50 per cent to 80 per cent by 1981. The recent opening of Hyundai's marine engine plant will be a big contributing factor in this process.

There is one other important factor working in favour of South Korea's shipyards—the growth of the country's own merchant navy. Eventually, the Koreans want and Government plans call for the ordering of another three container ships this year to take the national fleet to the size necessary for a 40 per cent liner trades share by 1981.

At the end of 1978, Korea had 42 container-carrying vessels (full or part-container) totalling 169,000 grt. The fleet is also comparatively old, with 20 per cent of the 497 vessels over 10 years old, which should also produce more business for the Korean shipyards, where owners are financially induced to build at least one third of their requirements.

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Young-Dong Apartment Complex in Seoul, Korea, constructed by Hanyang, with a view of bridge under construction.



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Stronger second half lifts Laird to £11.12m—pays maximum dividend

A SECOND half profit of £6.29m against £5.08m lifted Laird Group to a record £11.12m pre-tax for the 1978 year compared with £9.09m last time. Turnover for the full period was well up at £25.1m against £19.2m.

Earnings are shown as 15.32p (14.35p) per 25p share and the dividend is effectively stepped up to 2.982p (2.664p), the maximum permitted, with a final payment of 1.522p. Also proposed is a one-for-10 scrip issue.

After tax of £4.09m which includes £3.11m overseas—last year's charge £2.82m was overseas—and an extraordinary debit of £690,000, the available balance came out lower at £6.33m (£5.57m).

The extraordinary items is the cost of placing subsidiary Western Shippers on a care and maintenance basis, after tax.

The amount retained was £5.03m (25.41m) after dividends £1.3m against £1.09m.

Net asset value per share is given as 124.3p (111.7p) at the year end.

The directors say that claims for compensation for the nationalisation of Scottish Aviation and Cammell Laird Shipbuilders were made over two years ago and have not yet been agreed. To date some £1.45m has been received on account.

Laird is also involved in metal industry, transport, engineering, motor components, other engineering, etc.

• comment

Laird Group has come well up to expectations showing a 22 per

BOARD MEETINGS

The following companies have notified dates of board meetings to the Stock Exchange. Such meetings are usually held quarterly, but may be more frequent for the purpose of paying dividends. Other indications are not available as to whether dividends are interim or final and the sub-divisions shown below are based mainly on last year's timetable.	
Interims:	Trading, Queens Met House, Rockliffe and Colman
TODAY	Metropolitan
Property:	H. Brammer, Erith, Farnham (London S.W.3), T. and J. Hyman, Thomas Jourard, KCA International, G. F. Lovell, Low and Bonar, Macfarlane Group (Clanman), Murray Docks and Harbour, Ocean Transport and Taylor Pollister
Interims:	April 19
Finals:	April 9
Autora's	April 9
B.S.C.	April 3
Bank of Scotland	April 3
Berwick Timpo	April 12
Brown Boveri Kent	April 10
Chamberlain (F.M.S.) Estates	April 10
Charron-Belgique	April 5
Fothergill and Harvey	April 10
Lyon and Lyon	April 4
Owen and Owen	April 11
Rugby Portland Cement	April 11
Taylor Pollister	April 11

Goode Durrant sees increase

A PREDICTION that Goode Durrant and Murray Group, the international finance concern will do better than the £900,000 pre-tax profit in the year to October 31, 1978, is made by Mr. Lionel Robinson, the chairman, in his annual statement.

He expects Rawlings Bros, a wholly-owned subsidiary which made a £28,000 profit against a £4.6m loss, to provide an increasing share of group profit.

The group's overseas operations continue to do well, he adds. The store in New Zealand—Kirkcaldie and Stains—has again achieved record profits and the Southern African and American confirming and financing operations also made substantial contributions.

The group has disposed of its Mozambique interests under a sale agreement conditional until July.

The reduction in group net borrowings—down from £16m to less than £1.5m—has followed the re-shaping of the UK businesses, he says. It has given the group a strong financial base from which to develop its traditional shipping, confirming progress already and we expect to do better this year, he concludes.

Meeting, Durant House, EC, April 25, at 10 am.

NOTICE TO HOLDERS OF MITSUI REAL ESTATE DEVELOPMENT CO., LTD. (MITSUI FUDOGAN KABUSHIKI KAISHA)

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Turnover, £1,000,000,000 of the Total and Conditions under which the above Bonds were issued, notice is hereby given as follows:

On March 9, 1978, the Board of Directors of the Company resolved to make a free distribution of shares of its Common Stock to shareholders of record as of March 31, 1978 in Japan, and as of April 1, 1978 for each 20 shares held.

2. According to the conversion price of the Bonds has been adjusted effective as of March 9, 1978, the date of the above Bonds were issued, notice is hereby given as follows:

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make a free distribution of shares of its Common Stock to shareholders of record as of March 31, 1978 in Japan, and as of April 1, 1978 for each 20 shares held.

3. The immediate future gives cause for concern, however, Mr. Spooner states. The first three months' sales and profits have been affected by industrial unrest and the climate.

So far the group has suffered very little loss of production, but deliveries have inevitably been held up. It is hoped that most of

the immediate future gives cause for concern, however, Mr. Spooner states. The first three months' sales and profits have been affected by industrial unrest and the climate.

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Companies and Markets INTL. COMPANIES and FINANCE PENDING DIVIDENDS RECENT ISSUES

Ahold seeking further acquisitions overseas

BY CHARLES BACHELOR IN AMSTERDAM

AHOLD, HOLLAND'S largest supermarket chain, expects its net profit margins in 1979. After a period of strong expansion the Dutch retail trade must now accept more moderate rates of growth and more effort will go into improving internal management, logistics and marketing, said Mr. Albert Heijn, the chairman.

Spending on foodstuffs in Holland this year is expected to rise by 1.5 per cent following an increase of 3.5 per cent last year.

The company nevertheless plans to open a further 25 stores this year, in some cases replacing smaller stores. It has 670 outlets in Holland and 108 in the U.S. and Spain. It sees good prospects for its recent move into the operating of new canteens, while its own food processing operations, which include a bakery and dairy, will

Scrip issue from BHP

BY JAMES FORTH IN SYDNEY

AUSTRALIA'S largest company Broken Hill Proprietary (BHP), has announced a one-for-five scrip issue—its first handout to shareholders since 1974. The issue comes only a few weeks after the company announced a sharp jump on profit for the November half-year to A\$87m (U.S.\$97m), or more than was earned in the full 1977-78 year.

The increase was largely due to a turnaround from losses to

Avco profits move up

BY OUR SYDNEY CORRESPONDENT

AVCO FINANCIAL Services, one of Australia's leading shop front financiers, lifted its profit by 9 per cent from A\$10.3m to A\$11.2m (U.S.\$12.5m) in the year to November 30. The result followed an increase of almost 17 per cent in total receivables, from A\$157m to

profits by the steel division—BHP is the country's only steel producer—and higher earnings from the oil and gas division. Demand for steel is improving and higher production and prices in the second half should lead to profit for the full year to May, topping A\$180m. On this basis, earnings per share would have risen from 31 cents a share to more than 50 cents. On year-end capital increased by the scrip issue, it would still come out to almost 70 cents a share.

The volume of consumer loan business during the year rose from A\$91m to A\$104m. The average cost of borrowed funds edged up from 11.41 per cent to 11.93 per cent.

Sluggish year for Advertiser Newspapers

By Our Sydney Correspondent

ADVERTISER Newspapers, the media printing and packaging group, was held by its media activities to a profit increase in 1978 of only 6.8 per cent. Earnings for the year to December 31 rose from A\$8.9m to a record A\$9.5m (U.S.\$10.7m). The profit failed to keep pace with the growth in sales, which rose 14 per cent, from A\$63m to A\$55m (U.S.\$7.07m).

The group results rose only 1.3 per cent in the second half-year, after a gain of 16.7 per cent in the first six months. The directors warned at the half-way mark that the depressed advertising market would be reflected in lower media results for the full year; and the profit from the newspaper division fell 5.5 per cent for the year. The circulation of the Adelaide Advertiser, the major publication, dipped fractionally.

CURRENCIES, MONEY and GOLD

Sterling and the EMS

BY COLIN MILLHAM

Sterling, the only Common Market currency outside the European Monetary System, was the cause of more problems last week than any of the currencies actually embraced by the system.

The reason was the pounds link with the Irish punt, which the Irish central bank was forced to break on Friday morning. Trading in the punt was suspended at the same time, as the Irish currency rose above its highest permitted level against the weakest member of the EMS, the Belgian franc.

For the first time since the system began on March 13, the punt had been the strongest member of the EMS, but returned that honour to the lira on Wednesday and Thursday.

The Dutch guilder, French franc, Danish and Belgian franc have all depreciated from their central rates, while the lira, krona and punt have appreciated.

Over the course of last week the movement of currencies from their central European currency unit rates tended to widen, with the three strongest currencies increasing the lead over their weaker brethren.

When the EMS was first suggested by the leaders of France and Germany it was the fear of the strain on weak currencies which made Britain, Ireland and Italy hesitant about joining. It therefore seems somewhat perverse that the currencies of three of the poorer members of the EEC should have appreciated sharply, while the German Dmark has depreciated.

Apart from this, the new system does bear some comparison with the old European currency snake. Over recent months the Danish krona was the strongest member of the snake, and the Belgian franc the

weakest. Last Monday and Tues day the krona was the strongest member of the EMS, but returned that honour to the lira on Wednesday and Thursday.

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When the EMS was first suggested by the leaders of France and Germany it was the fear of the strain on weak currencies which made Britain, Ireland and Italy hesitant about joining. It therefore seems somewhat perverse that the currencies of three of the poorer members of the EEC should have appreciated sharply, while the German Dmark has depreciated.

Apart from this, the new system does bear some comparison with the old European currency snake. Over recent months the Danish krona was the strongest member of the snake, and the Belgian franc the

weakest. Last Monday and Tues day the krona was the strongest member of the EMS, but returned that honour to the lira on Wednesday and Thursday.

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Texaco sets LIFO rules on foreign inventories

By David Lascelles in New York

The company will continue

with the re-organisation of its

stores in Holland this year.

Tough competition from lower

priced competitors in recent

years led to a loss of market

share, but profits are expected

to improve this year after fall-

ing in 1978.

Texaco has now decentralised

its operations into five largely

autonomous divisions: retailing

in Holland, the U.S. and Spain,

food processing and restaurants

and leisure parks. Each division

has its own management which

reports directly to earnings

on a quarterly basis.

Most of the large U.S. oil

companies have been using

LIFO accounting for some

years, and particularly since

the last fuel price explosion

in 1973.

In inflationary times, LIFO

has the advantage of reducing

tax liability, but at the

cost of lowering profits as

well. However, high profits

have proved to be more of a

curse than a blessing to oil

companies at times of energy

crises, and LIFO therefore

serves a useful purpose when

oil companies want to avoid

accusations of profiteering.

The proposed offer would

be conditioned upon Imperial

receiving at least 404,027

shares of Continental

American 50.1 per cent of

or issuable, subject to stock

options, it said.

Imperial noted that it had

been discussing a merger with

Continental American since

December, 1978, but that

Continental American had

deferred action on the

proposal until May 1, 1979.

Renter

Gold Coins, domestically

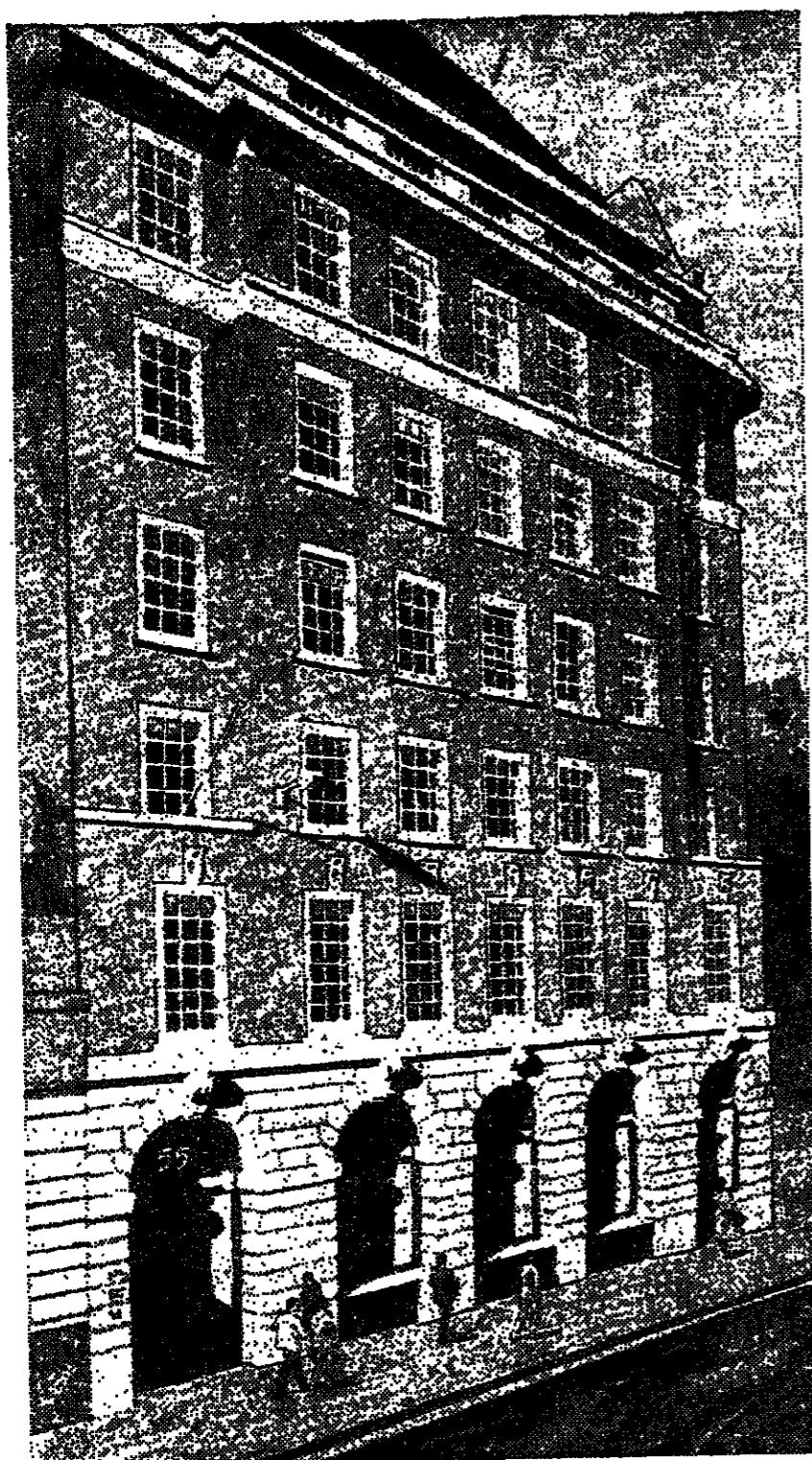
Krugerand, \$284.1-268.1-\$261-265

New Zealand, \$128-130-\$127-129

Sovereigns, \$23.34-\$23.34-\$23.34

Old Sovereigns, \$37.51-\$37.51-\$37.51

<div



On April 2nd Canadian Imperial Bank of Commerce is moving to 55 Bishopsgate London E.C.2.

The move of our City Branch from 2 Lombard St. and the European Operations Office from 42 Moorgate to new premises in Bishopsgate is yet another indication of the continuing growth of Canadian Imperial Bank of Commerce as a major force in world banking and finance.



55 Bishopsgate, London EC2N 3NN. Telephone 01-628 9858.
Telex 888229, Cable CANIMP London E.C.2.

Protected Eagles No.1

White Tailed Sea Eagle

Extinct in the United Kingdom by 1916. Re-introduced in 1977. Main habitats Scandinavia and Asia. Fourth largest eagle in the world, with a wing span of 7-8 feet. Like all eagles it is a protected bird.



With 160 U.K. branches you can rely on our countrywide insurance service for your protection. Millions do. Ask your broker or call in at your nearest branch.



Eagle Star Insurance

The week in Parliament

TODAY
COMMONS: Proceedings on the Representation of the People Bill. Completion of Remaining Stages of the Arbitration Bill (Lords), the Crown Agents Bill and of the Consents to Prosecutions Bill and proceedings on the Pneumoconiosis Etc. ('Workers' Compensation) Bill.
LORDS: Industry Bill (Money) third reading. Nurses, Midwives and Health Visitors Bill, third reading. Banking Bill, remaining stages. Estate Agents Bill, remaining stages. Motions to approve the White Fish subsidy (Deep Sea Vessels) (Specified Ports) Scheme, 1979. Air Navigation (Noise Certification) Order 1979. Carriage by Air Acts (Application of Provisions) (Second Amendment) Order 1979. Credit Unions Bill, second reading.

SELECT COMMITTEE: Expenditure, Arts and Home Office Sub-Committee. Subject: Women and the Penal System.

TOMORROW
COMMONS: Proceedings on the Finance Bill and on the Consolidated Fund (Appropriation) Bill. Completion of remaining stages of the Weights and Measures Bill, the Leasehold Reform Bill and Carriage by Air and Road Bill (Lords).

WEDNESDAY
COMMONS: Banking Bill, consideration of Lords amendments. Nurses, Midwives and Health Visitors Bill, Lords amendments. Estate Agents Bill, Lords amendments. Proceedings on the Ancient Monuments Bill (Lord(s)) and on three consolidation measures, the Exchange Equidisation Account Bill (Lords), the International Monetary Fund Bill (Lords) and the Prosecution of Offences Bill (Lords).

LORDS: Motion to approve Inmarsat (Immunities and Privileges) Order 1979. Consolidated Fund (Appropriation) Bill, Finance Bill, Weights and Measures Bill and Leasehold Reform Bill, all stages. Crown Agents Bill, Consents to Prosecutions Bill and the Pneumoconiosis Etc. ('Workers' Compensation) Bill, remaining stages.

Royal Assent will be given to all outstanding Acts and Parliament will then be prorogued prior to dissolution on Saturday, April 7.

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	London Fashion Exhibition (01-385 1200) (until April 5)	Olympia
Current	The Scottish Hotel Catering and Licensed Trade Exhibition (031 223 6412) (until April 6)	Kelvin Hall; Glasgow
Current	International Engineering Inspection and Quality Control Exhibition (01-300 3200) (until April 6)	Exhibition Centre, Birmingham
Apr. 3-6	Leatherwear International (01-385 1200)	Olympia
Apr. 3-5	Computermarket '79 (01-935 4986)	Bloomsbury Centre Ht., WC1
Apr. 3-6	OGCA Technical Exhibition (01-908 1086)	Alexandra Palace
Apr. 5-8	Tipping Vehicle Exhibition (061-584 7648)	Exhibition Centre, Harrogate
Apr. 6-17	Birmingham Motor Show (0602 51202)	Bingley Hall
Apr. 8-14	Ideal Homes Exhibition (031 225 9857)	Assembly Rooms, Edinburgh
Apr. 18-21	National Food Services (01-686 7181)	Grosvenor House, W1

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Current	Travel and Holiday Fair '79 (01-986 1951) (until April 8)	Helsinki
Current	Europain '79 (01-459 3964) (until April 9)	Paris
Current	Toys and Games Trade Show—BELJOUETS (until April 8)	Brussels
Apr. 5-8	International Coffee Exhibition	Genoa
Apr. 8-10	MODEXPO—International Ladies' Fashion Fair	Zurich
Apr. 14-23	International Trade Fair	Milan
Apr. 19-25	International Book Fair	Jerusalem
Apr. 20-29	International Household Fair	Amsterdam
Apr. 21-29	AGRO '79—Northern Agricultural Fair	Braga

BUSINESS AND MANAGEMENT CONFERENCES

Current	Management Centre Europe: Management Course (until April 6)	London
Current	IPM: Industrial Relations Law: The impact of current legislation (01-387 2844) (until June 7)	Upper Woburn Place, WC1
Current	BTSC: Strategic Management Course (04862 5444) (until April 28)	Woking, Surrey
Apr. 2	AMR International: Interviewing Skills and Techniques for Executives (01-262 2732)	Royal Garden Hotel, WB
Apr. 2	ESC: Important Developments in the Protection of Industrial Designs (057 283 2711)	Hilton Hotel, WI
Apr. 2-4	ASM: Managing and Controlling R & D projects (01-385 1932)	RAC Club, SW1
Apr. 2-4	MSS Computer and Business Consultancy: Effective Marketing and Selling (0903 347583)	Worthing
Apr. 2-6	Frank Jenkins: Export PR/Planned Press Relations (01-687 2911)	Connaught Rooms, WC2
Apr. 3	Executive Conferences: Justifying and Selecting Automatic Test Equipment (0494 53171)	Hotel Russell, WC2
Apr. 3-5	Energy Utilisation and Conservation Conference (01-637 2400)	Royal Lancaster Hotel, W2
Apr. 3	NTIS: Information Services (0420 843000)	American Embassy, Hilton Hotel, Rotterdam
Apr. 3	Kwaliteitsdienst-KDI: Effective Material Utilisation (01-636 5351)	Regent's Park, WI
Apr. 3-6	BACIE: Training Design (01-636 5351)	Europa Lodge Ht., W. Brom.
Apr. 4	The Spring Research and Manufacturers' Association: Health and Safety in the Spring Industry (0742 780771)	Cafe Royal, WI
Apr. 4-5	Graham and Trotman: Saudi Arabia and Egypt: Current and Future Business Opportunities (01-493 6351)	University of York
Apr. 4-6	BHRA: Institute of Chemical Engineers: Mixing (0242 75202)	Amsterdam
Apr. 4-6	ISBA: World Industrial Advertising Congress (01-222 6362)	Plaza Hotel, Frankfurt
Apr. 4-6	International Insurance Conference (01-222 6362)	University of Aberdeen
Apr. 6	Assn of Offshore Diving Contractors: Underwater Engineering Symposium (01-549 5831)	Royal Lancaster Hotel, W2
Apr. 6	Oyer-IBC: Damages for Personal Injury and Death (01-942 2451)	Guild Hall, Preston
Apr. 9	The 48 Group: Trends in British Trade with China (0772 51531)	London Press Centre
Apr. 10	AGB: Trade Union Recognition—the options (01-353 3651)	Birdcage Walk, SW1
Apr. 10	The Institution of Mechanical Engineers: Power from Coal (01-222 7899)	Cannon Street, EC4
Apr. 11	LCCI: Conference on Libya (01-248 4444)	Carillon Tower Hotel, SW1
Apr. 11	The Henley Centre for Forecasting: The Budget (01-236 3011)	Kensington Close Hotel, WS
Apr. 11	BAMA: Achieving production efficiency (0703 842765)	Ardmore
Apr. 14-21	CBA/John Ridgway: Training Course (01-720 7711)	London, WS
Apr. 18-19	IMPI/ARJEDA: Microwave—a Cooking Revolution (0852 411001)	Charing Cross Hotel, WC2
Apr. 18	AGB: Executive Secretary (01-353 3651)	Cafe Royal, WI
Apr. 18-20	Eurotech Management Development Service: Be a More Effective and Persuasive Communicator (0252 313066)	Singapore
Apr. 19	AGB: Essentials of Employment Law (01-383 3651)	Worthing
Apr. 19-20	FT Conference: South East Asian Banking and Finance (01-236 4382)	Piccadilly Hotel, Manchester
Apr. 19-20	MSS Computer and Business Consultancy: Manufacturing/Production Control Concepts (Worthing 347665)	Kennington, Oxford
Apr. 20-23	Malaysian Investment Centre: Assisting UK Businesses in the Expansion of Trade and Investment Opportunities in Malaysia (01-493 0616)	
Apr. 20-23	IPM: Current and Future Developments in Pay Policy and Industrial Relations Practice (0865 735422)	

"Notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales."

Sir Bernard Scott, Chairman

RESULTS

Turnover for the six months was £510m, an increase of £48m. The Lucas share of Associated Companies' (all overseas) turnover was a further £61m giving a total turnover of £571m which is £64m higher than the previous year. Sales in Europe increased by 21% and those in the US by 43%. Direct exports from the UK were up by 24% to a record level of £86m.

Profits before tax for the six months at £24m were disappointing and this was due to the poor performance of the UK market. During the whole of the first half of the financial year there has been a series of disruptions to production and sales caused by the wide-ranging problems both within the industry and elsewhere. Thus the UK production of vehicles showed a decline of no less than 18% on the previous year. An additional

factor that reduced profit was our considerable spending on new projects not yet on stream but which will make an important contribution in the future. Outside the UK our companies in Europe and other overseas areas performed well and increased their profits by 28%.

PROSPECTS

The outcome will depend materially on the industrial climate prevailing in the UK for the remainder of the year. Steady and sustained production is essential to restore the profitability of our domestic business to a satisfactory level. However, notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales. Our prospects are good and market penetration continues to increase.

1979 Interim Results at a glance:

	Half-year to 31.1.79 £ million	Half-year to 31.1.78 £ million	Year to 31.7.78 £ million
Sales to outside customers	510.14	462.39	971.17
Surplus on trading	26.87	30.84	77.91
Profit before taxation	24.09	27.51	73.05
Earnings per ordinary share	18.89p	22.99p	59.89p
Dividend per ordinary share	2.57p	2.33p	9.18p

INTERNATIONAL CAPITAL MARKETS

INTERNATIONAL BONDS

BY FRANCIS GHILES

The Canadian dollar comeback

ANOTHER startling week for the prices of Sterling bonds and of dollar bonds convertible into British equities, also saw the re-emergence of the primary market in fixed interest Euro-dollar bonds and after a long absence of new issues in Canadian dollars. Meanwhile conditions in the "hard currency" market, which ruled the roost last year, continued to deteriorate.

The Canadian dollar sector of the market was re-opened yesterday by the closing for 18 months. All indications at the end of last week pointed to a warm reception for the two Canadian dollar issues, for Canada's Export Development Corporation and Hudson's Bay Co., which were announced on Tuesday. The Hudson's Bay issue was increased from an initial C\$40m to C\$60m later in the week. A third issue, for Province of Quebec, was announced on Friday evening.

The total size of the EDC bond is C\$180m of which C\$50m has been issued in the traditional way while a further C\$50m remains for issue between now and the end of three years at the discretion of the borrower.

The coupon and maturity will be the same regardless of when the individual bonds are issued, with changes in market conditions being taken into account by altering the issue price.

The only other occasion when

such a "quasi-tap" issue was arranged was in September 1977, by Ordin Bank, one of the joint lead managers in the issue for Oesterreichische Kontrollbank.

The reopening of this sector was made possible by the improvement in the Canadian currency since the beginning of March. It then stood at C\$0.88 against the U.S. dollar but had moved up to C\$0.86 by last Friday.

This improvement is reinforced for the investor by the higher yield he can get on the new Canadian dollar issues than on recent U.S. dollar issues.

Electricité de France reopened the dollar sector of the straight Eurobond market with a \$75m offering. A \$40m straight issue for Comalco was then announced later in the week.

The reception for EDF was fair, not least on account of the rarity of the name, but some retail investors objected to the fact the bonds could be redeemed after three years at a price of 100. Many felt higher yields were available for three years in other types of paper.

Turnover of seasoned dollar bonds was said by dealers to be average. Against the background of a firm dollar and easing interest rates the declining yield premium offered by money market instruments may be diverted some funds back into bonds. This consideration

appears to outweigh the more bearish ones, such as the rate of inflation and further increases in the price of oil.

The announcement of oil price increases and the threat of further rises in inflation and interest rates again troubled the Yen, D-Mark and Swiss franc sectors. Prices of D-Mark bonds

calendar for the four weeks starting March 26, which was set at a maximum of DM 770m, was too high.

The deteriorating state of this market was confirmed by the terms for RENFE and particularly by those for the Fujitsu

Yen, D-Mark and Swiss franc convertible which carries a coupon of 5 per cent, the level of the coupon was at least 2% point above what was expected a week before.

The deterioration of the Yen sector was reflected in the decision by the Japanese authorities to curtail Yen bond issues planned for the next two months. This forced both Denmark and Austria to scale down their plans for Yen bond issues next month.

In the sterling sector gains of up to 3% points were registered on the week. The recent issue for FFI closed at 103 on Friday. The excitement on the British stock market coupled with the strength of sterling showed through clearly in the prices of UK dollar convertibles. The Thorn issue closed at the end of the week at 122, up from 103 at the beginning of March. On Thursday morning this security put on 10 points in as many minutes.

In the French franc sector the FF 125m bond for Solvay

was priced at par and a half. It was four times over-subscribed.

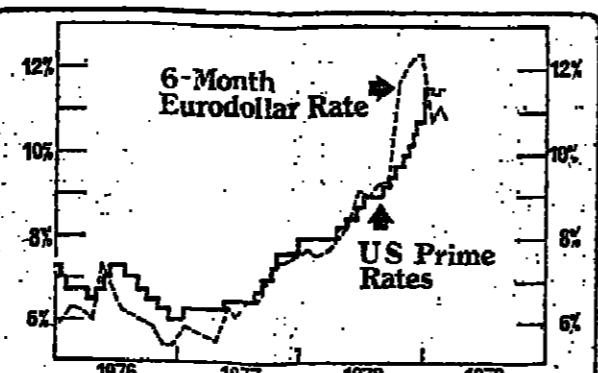
Hungary is to borrow \$300m by way of a syndicated loan paying 1 to 1.5% above U.S. prime rate rather than LIBOR. The chart shows why this could be more attractive to U.S. banks. The loan is being managed by Manufacturers Hanover Group of the U.S.

fall by an average of 1 point across the board in very thin trading after the announcement that both the discount and Lombard rates would go up by a full point in Germany.

Some German bankers also felt that the new D-Mark issue

highest for a DM denominated Japanese convertible for a long time.

In the Swiss franc sector, too, the Japanese are having to pay more on convertibles. Rhythm Watch paid 8% per cent instead of the recently prevailing 3%



INTERNATIONAL LOANS

An impressive digest from the BIS

BY MARY CAMPBELL

THANKS to the Bank for International Settlements (BIS), it is now at last possible to make sensible estimates of individual country's debts without several years' study of statistical niceties first.

On Friday, the BIS published a document called "Manual on Statistics Compiled by International Organisations on Countries' External Indebtedness". As may be guessed from the title, it is not the sort of tome which every loan syndication officer needs to carry round the world in his pocket.

But from now on no bank involved in international lending, however small its research department, can have any excuse for failing to do its homework on any national debt position.

The manual could also be useful to companies involved in providing counterparties' credits, companies which have tended to be the main losers so far in the critical cases of default like Turkey which have already come out into the open.

Finally, it is likely to consolidate the position even of experts in the field. One commentator on country debt said last week that it would fill in a number of gaps in his understanding of the statistics.

Arguably it is the most important contribution to international credit assessment since the BIS started to break down banks' cross-frontier lending by

maturity in December 1978. For while a great deal of data is now published on countries' foreign debts, it comes from so many different sources at so many different times of year that it has been very difficult to use.

The new study, which runs to 110 pages, does three things. First it lists and describes all the various international sources of information both on cross-frontier flows of funds and also on the outstanding stock of countries' external debt.

It falls far short of actual aggregation of the figures for individual countries. But the publication is part of the general thrust to improve the quality of data available on country debt.

An actual aggregation of figures might be the next stage.

The BIS notes that "the international organisations concerned are now examining the extent to which these data could be aggregated in a form suitable for publication, using

the more detailed information available for their own purposes but which is not publicly available." But such a development would not happen overnight, even if the necessary agreements for it were to be secured.

Second, it explains the scope and limitations of the information. Third, it gives indications of how all this information can be roughly put together to compile an estimate of overall indebtedness.

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THE NEW YORK bond market is facing some difficult tests over the next few days, as investors try to assess the implications of the confrontation in the trucking industry, the uncertainties posed by Congress's failure so far to raise the Federal debt limit, and the publication later this week of the Producer Price Index for March which is widely expected to show that inflationary pressures continue to run at a double digit annual rate.

Thoroughly most of last week the prices of long-term bonds were firm and in spite of a decline on Friday prices in both the corporate and Treasury sectors ended the week a shade higher with gains of around one quarter of a point in longer

dated government issues.

Interest rates in the short term money markets

declined slightly, although the Federal Reserve Board's target of about 10 per cent for Federal funds appeared unchanged.

The performance of the market was widely ascribed to the continued failure of Congress to approve an increase in the U.S. Government's debt ceiling from \$798bn to \$830bn and the consequent shortage of stock.

The lack of action in Congress on this issue threatens to pose a serious problem for the authorities and has already disrupted the financial markets. Unless the House of Representatives acts today to approve an increase, the Administration

will, according to official forecasts, be unable to meet its obligations.

These include payment of some \$7bn of social-security cheques. Last week the Treasury stopped selling savings bonds and in efforts to increase the available cash, called on banks to pay in any tax receipts they were holding. In order to stay within its debts ceiling, the Treasury has also postponed an estimated \$10bn of securities.

On the assumption that Congress approves the increase in the debt ceiling early this week, the markets are likely to be faced with the task of absorbing a flood of new Treasury sales and it was this prospect which sparked the decline in prices on Friday.

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INSURANCE

APPOINTMENTS

WORLD STOCK MARKETS

Questions begged by compulsory liability

BY OUR INSURANCE CORRESPONDENT

WE ARE now in the eighth year of compulsory employers' liability insurance and so smoothly have the compulsory laws been applied by the insurance market that the only visible evidence of change has been the displays on office and factory noticeboards of current statutory certificates of insurance.

It is trite to say that the employer must have cover to ensure employees receive compensation for any injury or illness caused in the course of their work as the result of the employers' negligence. This provokes the questions: "Who is an employee?" - and "which employees have to be protected by law?"

The 1969 Act defines an employee as "an individual who has entered into or works under a contract of service or apprenticeship with an employer whether by way of manual labour, clerical work or otherwise, whether such contract is expressed or implied, oral or in writing". It then goes on to exempt certain employees and certain employers.

Vital words

The vital words are "under a contract of service or apprenticeship," but almost all insurers provide cover in respect of people outside the statutory definition; for example, people hired to or borrowed by the policyholder while under a contract with some other employer, or perhaps self-employed people doing work normally performed under a contract of service or apprenticeship with the policyholder.

The number of people who might be called "quasi-employees" and whose rights to compensation for work accidents may be insured for convenience under employers' liability policies, is increasing.

Last Friday a Financial Times report described how GBC at Manchester is running, in conjunction with the Manpower Services Commission, fortnightly employment induction courses, each for up to a dozen young unemployed people. While much of the time is taken up with classroom exercises, lectures and visits round the factory, on several days these young people are allocated positive tasks under supervision.

The Manpower Services Commission is concerned with two kinds of scheme for young unemployed.

In the first, the Youth Opportunities Programme, is to provide some youngsters with a practical introduction to working life. The youngster does not legally become an employee of the undertaking involved.

In the second, the Special Temporary Employment Programme which provides temporary jobs in areas of unemployment, the worker becomes a legal employee.

An undertaking

Insurers have now given an undertaking that any young person involved in either scheme will be treated as an employee, not just for the purposes of employers' liability insurance but for public liability insurance as well. The employer participating in such an arrangement does not have to tell insurers in advance, though he does have to include the temporary employees' wages in whatever declaration insurers require.

During their final school year some pupils undertake a few weeks' unpaid work to find out whether their chosen employment is suitable. Usually local authorities are responsible for this arrangement. Insurers are prepared to treat these pupils as employees for the purposes of both employers' and public liability insurance, but only if the policy holder concerned informs insurers in advance, though his wage return an appropriate notional amount of earnings for each pupil.

Public Works Loan Board rates

Effective from March 24

Years	Quote loans repaid		Non-quota loans A* repaid		Company	Prices April 1 on the		Change
	by E.P.T.	A†	at maturity‡	by E.P.T.	A†	Frs.	+ or -	Div. %
Up to 5	11½	11½	11½	12½	12½	341	-	1.0
Over 5, up to 10	11½	12	12½	12½	12½	351	-	1.0
Over 10, up to 15	12½	12½	13	13	13	351	-	1.0
Over 15, up to 25	12½	12½	13½	13½	13½	351	-	1.0
Over 25	12½	12½	13½	13½	13½	351	-	1.0

* Non-quota loans B are 1 per cent higher in each case than non-quota loans A. † Equal instalments of principal. ‡ Repayment by half-yearly annuity (fixed equal half-yearly payments to include principal and interest). § With half-yearly payments of interest only.

General manager for National Benzole

Mr. John H. Sperring has been made director and general manager of NATIONAL BENZOLE COMPANY from today. He succeeds Mr. D. Chadwick, who headed the company for six years until retiring. Mr. Sperring joined National Benzole, a BP company, in 1957.

Mr. Noel Blows has been appointed an associate director of HARLOW MEYER AND CO., foreign exchange brokers, a subsidiary of Mills and Alien International.

Mr. A. E. Hepper has been appointed a director of SHEEPBRIDGE ENGINEERING. He is chairman of Henry Sykes and is also a director of Cape Industries.

Mr. Richard Harbord has been appointed a director of HAYES MILL with responsibility for controlling internal sales. Mr. Robert Stimpson has become managing director of MATHERSON-SELLIG. Both companies are members of the Harrison Group.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international banking group, New York. He assumes the duties of Mr. Ernst Schneider, who has returned to Switzerland to become a general manager of Credit Suisse in Zurich. Mr. David M. MacC, has been elected a senior vice-president and assumes Mr. Palmieri's duties as division manager.

Mr. Adrian Rapazzini has joined P. S. REFSON AND CO to establish and manage the bank's corporate finance department. He was previously a partner of Stoy, Hayward and Co, specialising in financial investigations.

Mr. A. C. Baker has been appointed a director of the BANKERS' INVESTMENT TRUST from April 2.

Mr. R. B. Annesley and Mr. C. J. Wakefield have been appointed executive directors of GREENGARDEN INVESTMENTS. They have resigned from the Board of ENGLISH PROPERTY CORPORATION and

joined the board of STOY, HAYWARD AND CO.

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WEST BERLIN II

Economy operates efficiently

WEST BERLINERS take for granted the highly efficient way their city of some 2m is supplied round the clock from West Germany and sends back most of its processed goods. This past winter, though, it struck home that not once did West Berlin experience shortages of any kind or cuts in electric power during the severest storms in decades that wrought havoc all around the city.

One little-noticed event illustrated the enormous improvements in West Berlin's position since the Four Power Agreement 30 years ago. Although East Germany was struggling with serious shortages of fuel and railway transport, it diverted extra East German Reichsbahn trains to transport oil from Hamburg to West Berlin.

The annual transport across

East Germany of DM 44bn in

goods between West Berlin and

West Germany takes place with

fewer delays than experienced by most large cities. West Berlin's geographic position is

to be enhanced in coming years

with the construction of an

Antikahn linking the city with

Hamburg, while freight carried

over the canals linking West

Berlin and West Germany will

be speeded up by the reopening

of the Teltow Canal in West

Berlin, closed after the building

of the Berlin Wall. A quarter

of all freight carried between

the city and West Germany

already is shipped by barge.

West Berlin's gross domestic

product last year rose 3 per

cent in real terms compared

with 3.4 per cent in West

Germany, an improvement that

is expected to continue this year

with an increase of 3.5 per cent

in GDP for the city against

1 per cent growth in West

Germany.

For several years Berlin

investments lagged behind those

in the Federal Republic but last

year capital goods investment

was up 10 per cent and is

expected to rise by about 8 per

cent this year, or about the same

as in West Germany. Philip

Morris for example is investing

DM 40m to expand its Berlin

factory. Bosch is investing

DM 35m, Daimler-Benz DM 100m

and Siemens DM 12m after

putting DM 1m into its factories

in the city over the past seven

years.

West Berlin's economic life is

intertwined with West

Germany, including the vital

assistance it receives from

Bonn. The Federal Government

this year is paying 51 per cent of the city's budget or, DM 8.4bn. West Berlin gets 58 per cent of the economic assistance West Germany grants to regions requiring aid, which is an even higher proportion than a decade ago.

Contrary to some fears when the Four Power Treaty was signed, West Germany has steadily increased its financial support for Germany's largest city. Only last month Bonn agreed to double its yearly subsidy to DM 83m for lowering the fares of passengers using British Airways, PanAm and Air France flights between West German cities and West Berlin. Federally-owned companies placed DM 35m in orders to West Berlin companies last year and Chancellor Helmut Schmidt and the Economics Ministry have "loaned" on major West German companies to buy from West Berlin companies, all things being equal.

Lucrative

The largest single subsidy to West Berlin, amounting to DM 1.8bn in 1977, is the reduction in the 12 per cent VAT added Tax from between 4.5 per cent to 10 per cent of the value of a product being sent to West Germany. The reduction depends on the value added to the product in Berlin and a 1976 ruling that at least 10 per cent of the product's value must be made in Berlin, there were some glaring abuses.

For example, West German coffee roasters found themselves losing their traditional business to West Berlin, and meat slaughtering burgeoned out of all proportion in Berlin where it took little more than a blow to a carcass to qualify for a healthy reduction in VAT. Sticking a label on a bottle of West German liquor and sewing a button on a finished jacket in West Berlin boosted profits considerably. Those indulgent days are over but it is still lucrative enough for many West German and foreign companies to manufacture in West Berlin.

Secondly, most important among the preferences granted to West Berlin's industry are the income and corporate tax reductions amounting to DM 395m. Corporate taxes are 22.5 per cent lower than in West Germany and income taxes are 30 per cent less. Small wonder that some of the most expensive cars in Germany are driven from Grunewald

car park. The loss of industrial jobs is a problem in West Berlin just

as in West Germany and several large companies, especially in industries with structural problems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steadied late in the year at 172,000, a level its expected can be held this year but which is down from 265,000 jobs in 1972.

Berlin's investment subsidy is nearly as important and came to DM 384m in 1977. The city will buy a company a factory site for which it then pays 4.5 per cent of the purchase price and gets a hereditary lease. Companies are also reimbursed 12.5 per cent of building costs and the city gives a 25 per cent rebate for investments in machinery and equipment. Low-interest European Recovery Program loans at 3.5 per cent for up to 14 years are made available for investments in buildings and machinery along with other advantageous city credits which amount to DM 126m a year.

A few weeks ago, the West German Bundestag voted to further improve assistance to Berlin by including engineering consultants among the companies allowed VAT preferences. In addition, investment subsidies are raised for the purchase of buildings used for research and development and for data-processing equipment used in providing services for West German companies. The companies profiting the most in Berlin are capital intensive ones that have a high volume of investments, are profitable and sell most of their products to West Germany or export them. A company such as BMW has its entire motorcycle production in Berlin and is now investing DM 180m to build a new factory that will produce car parts.

Foreign-owned companies such as Gillette, IBM and ITT have major plants in West Berlin and both BAT and Philip Morris supply the West German and European markets from the city. Schering, the Berlin chemicals and pharmaceuticals company with 10,000 employees, has built up a DM 2.2bn international business from its base in the city but companies of this size are unusual there. The average Berlin company is small to medium-sized with 40 per cent employing up to nine people and another 40 per cent employing from 10 to 100.

The loss of industrial jobs is

a problem in West Berlin just

One area in which additional jobs are being created is the service industry. The number of service employees rose last year by 1.2 per cent to 148,000 or, 18 per cent of all employees. They have profited from the city's growing tourism, conventions and trade fairs which have also made necessary an expansion of hotel room capacity by 3,000 new rooms up to mid-1983. The city is now in the odd situation of having to find future hotel employees in Sicily because they are lacking in Berlin along with many other skilled workers.

West Berlin has made considerable efforts to attract West German workers to the city, whose population fell by 17,500 last year largely because of the excess of deaths over births. Estimates have the city declining in population to 1.7m by the turn of the century, by which time it may have started attracting people from more overcrowded regions. The number of foreigners in West Berlin is continuing to rise and will reach 210,000 this year, making one in every ten West Berliners a foreigner or a first generation German.

Leslie Colitt
Berlin correspondent

BEWAG Energy for Berlin



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"Ostpolitik" of former Chancellor Willy Brandt has almost dropped out of sight. It is worth glancing back at what has been happening.

The key was the Four Power agreement (the United States, the Soviet Union, Britain and France) on Berlin, of September 3, 1971. That did not mark the start of Ostpolitik—Bonn had already signed agreements with the Soviet Union and Poland in the previous year. But it was the four-power accord which laid the basis for future advance in three main ways.

First, the Soviet Union for the first time in treaty form recognised the close ties between West Berlin and the Federal Republic and agreed that these should be developed. It is true that there have been repeated squabbles over this part of the text, with each side interpreting the word "ties" in the way best to suit itself.

A few figures will indicate the extent to which these agreements have made their impact—the extent to which the wall has become "porous" as it were.

West Berliners are allowed to visit East Berlin and East Germans for up to 30 days a year.

Last year West Berliners alone made more than 3.2m such visits—some just for part of the day, some for longer. At the same time almost the same number of West Germans visited East Germany (against 2.2m in 1973).

The number of East Germans coming the other way is much lower—confined, at present, to those of pensionable age or those who wish to visit the west for "urgent family reasons".

Nonetheless the total last year was 1.4m. Even the statistics for telephone calls show how the situation has changed. In 1970 there were still no direct calls from West Berlin to East Berlin and East Germany—in 1976 there were more than 7m.

Beyond this growing network of personal contacts, which clearly must have an impact on the ideas and judgments of both sides, official talks have been going on. The most notable outcome was last November when the two German states signed a series of long-term agreements to strengthen further West Berlin's ties with West Germany—while providing East Germany with more hard currency.

It has to be noted that the West Germans have paid large bills for many of the advantages gained over the years. The arrangement is that if the Berliners gain, which they obviously do, and the East German people benefit, which presumably they must be some degree, then it is a price worth paying. The East Germans are, after all, Germans.

Leaving aside politics for a moment, it is worth recalling a song by Herr Wolf Biermann, the West German satirist who chose to live in East Germany but who was prevented from returning there after a concert tour in the West in 1976. Called "Deutsches Misere" he sings of the people of Europe who, perhaps, are fortunate because Germany is divided into two hostile parts. But the wall will come down, he insists, and much will change on both sides. Politicians are not renowned for taking much notice of troubadours—even good ones. Perhaps in this case they should think again.

Czechoslovakia and Hungary, which make big use of Hamburg port. Further, it was agreed that East Germany will reopen the Teletow Canal—thus shortening the barge trip from West Germany to West Berlin by two days. Talks are to go ahead on further improvements and meanwhile other official but non-governmental contacts are gathering pace. For example, a smiling Herr Eugen Loderer, head of the West German metalworkers union IG Metall, could recently be seen in East Germany, agreeing that he and his East German colleagues did not see eye to eye on everything, but that they found it useful to have contacts and develop them.

Responses

The word "reunification" has been deliberately avoided since it arouses so many emotional responses as to make further consideration of the question difficult. (It is worth recalling, however, that the preamble of the Federal Republic's basic law [provisional constitution] says that "the entire German people are called upon to achieve in free self-determination the unity and freedom of Germany.") But if a key aim of Ostpolitik was to bring the two halves of Germany closer, to move towards a situation in which the Berlin wall became increasingly irrelevant, then it is fair to assess the policy as already a success—and, barring a serious rise in tension between the super-powers, likely to become still more so.

Leaving aside politics for a moment, it is worth recalling a song by Herr Wolf Biermann, the West German satirist who chose to live in East Germany but who was prevented from returning there after a concert tour in the West in 1976. Called "Deutsches Misere" he sings of the people of Europe who, perhaps, are fortunate because Germany is divided into two hostile parts. But the wall will come down, he insists, and much will change on both sides. Politicians are not renowned for taking much notice of troubadours—even good ones. Perhaps in this case they should think again.

Jonathan Carr

WEST BERLIN III

JAHN

Congress centre on the grand scale

WHEN THE International Congress Centre is opened in West Berlin today by President Walter Scheel of West Germany before an audience of 7,000, the sheer size of both the event and the building will strike many Germans as typical of the brash Berliners and their sprawling city.

The accompanying concert on the congress centre's grand stage by the Berlin Philharmonic Orchestra, under Herbert von Karajan, and the following day's concert by Karl Böhm and the Vienna Philharmonic, will demonstrate that no less attention has been paid to the acoustics of the building's enormous multi-purpose halls than to their commercial viability.

The opening of this DM 800m (£210,000) futuristic structure is designed to help make West Berlin the first-ranking convention city in Germany.

The silver-sheathed building, which appears to glide along its site like some gigantic opened matchbox, exudes the energy that typifies this city at its best. Situated next to the sprawling Berlin Exhibition Grounds and linked to them by a three-storey flying bridge, the building also represents the city's even more ambitious goal to become one of the world's foremost convention centres.

Convention-goers will certainly appreciate the centre's siting, five minutes by bus or underground from the heart of West Berlin and less than 10

minutes from the airport by car.

Currently, the city ranks with Munich and Hamburg as one of the leading German convention cities, and is in 10th place internationally. The opening of the congress centre is expected to propel West Berlin into first place in Germany, and move the city into sixth or seventh place internationally.

Herr Peter W. Haupt, the building's general manager, says he hopes that by 1985 West Berlin will have risen to third place among the world's convention cities, behind London and Paris.

"There's far more competition between ourselves and convention managers in other German cities than we have with our colleagues in Paris and London," he explains.

The reason is that international conventions, and conferences, wander over the globe, and when they choose to meet in Europe, only one country is considered each time. Most of the rivalry takes place between that country's cities to host the convention, and this also explains why the new Berlin centre is so large.

"This year we will have three events with 5,000 people at each of them," Herr Haupt says, "and this will fully utilise capacity. Next year there will be five events of this size."

Depending on the type of convention or conference, the two main halls — separated by the enormous central stage — can

seat more than 8,000 participants with just over 5,000 in Hall 1 and 3,160 in Hall 2. Hall 1 can also be transformed for working sessions by rapid converting of every other row of seats into desks.

About 2,000 participants can take part in a conference in Hall 2 when seating galleries are lowered from the ceiling, turning the hall into a tiered auditorium. The platform can then be raised to create a ballroom holding 4,000, or a banqueting hall seating 3,200.

A specially-designed Berlin conference chair, supposed to keep occupants' spines from collapsing, has been installed in both halls with everything incorporated except for side-rests to permit a conference snore.

In addition to the two main halls, the congress centre has a third auditorium with 870 seats, and seven other rooms seating from 126 to 288 people. Another 70 rooms of various sizes provide more intimate surroundings for working groups.

Among the larger conventions and meetings to be held at the centre this year will be the European Brewers' Convention next month; the Volkswagen Company's shareholders' meeting, with 4,000 participants; a meeting of Daimler-Benz car dealers, a shareholders' meeting of West Germany's largest company, Veba; a jubilee celebration by the Siemens Company; a

world conference by the Hoechst Company; and the German Social Democratic Party's national convention.

A main event next year will be a world convention of the International Bar Association.

From now until 1981, the congress centre is booked solid, with 100 conferences and conventions. Another 270 events are now being worked on, up to 1985, and the centre is negotiating to hold conventions of 6,700 participants in 1987 and 1989.

Benefits

However, Herr Haupt says that convention centres probably can never be made profitable, and the new congress centre is receiving subsidies from the city of about DM 25m (£6.5m) annually, in line with other convention centres.

Financial benefits that do accrue will go to the economy of West Berlin, he says, pointing out that the average convention-goer spends DM 250 a day or four times the amount of the average tourist. Participants at the centre's conferences and conventions in the first year of operation are expected to spend about DM 120m in the city's hotels, restaurants and shops.

The organisers of West Berlin's fairs and conventions believe that the city's location in the heart of East Germany, as mutually complementary, because trade and speciality fairs are increasingly being held together with conventions.

The Tourism Exchange, for example, takes place with a congress each year, and the International Green Week and the International Radio and TV Exhibition attract several parallel conferences and seminars.

The Berlin Exhibition Grounds, with 24 large halls in

II



The new centre: typical of the brash Berliners

as well held in 1977.

The Overseas Import Fair in September is another successful event which provides a trade and contact forum on products from developing countries. The International Green Week and the German Industries Exhibition held in Berlin every other year, is to have greater participation than ever from the West German car industry next year.

Leslie Collett

Restoring the city

ONLY A few streets from the pulsating Kurfürstendamm are quiet tree-lined residential neighbourhoods with small family-owned shops. In 1890s Wilhelminian buildings that would long since have been raised to make way for office buildings in most West German cities, West Berlin is guilty of its share of urban misplanning, but much of it has been spared the unbroken facades of glass and steel in a madly drained of life after decades.

The city's blend of apartments, offices and shops is less a virtue than a product of necessity as West Berlin has no suburban hinterland. During its inner-city residents with prefabricated housing.

Despite the building of over half a million new flats since the war, and the apparent balance in housing of 1.1m flats to 1.9m inhabitants, newly arrived West Germans say the actual housing shortage is worse than in West German cities. For one thing the city still has over 600,000 apartments heated by coal-burning stoves and 250,000 flats without either bath or toilet, or both. The worst housing is occupied by 180,000 foreign workers and their families, mainly from Turkey, while West Berliners and West Germans compete for the better flats.

The city's goal is to modernise 200,000 substandard dwellings in the next 25 years at a cost of over DM 3.6bn, of which DM 700m will be in public funds mainly from West Germany. This marks the most ambitious project in Germany to restore the inner districts of a major city and prevent their decay into slums.

An international building exhibition is to be held in West Berlin in 1984 to demonstrate at first hand how city cores can be revitalised. One can view the results of the 1981 building exhibition on housing estates in green spaces by visiting the Horsemose, Siemens and Uncle Tom's Cabin housing estates which are still regarded as highly livable in by their occupants.

Renovated

Some 60,000 apartments are to be renovated and modernised as part of the 1984 exhibition, while the old town in Spandau district is to be fully restored with four city squares given back their lost urban quality. Nine thousand new flats are to be integrated into the inner city without sacrificing green surroundings. West Germany is providing DM 45m to reconstruct the former Applied Arts Museum with the help of Polish craftsmen; the Ephraim Palace is also to be rebuilt at a cost of DM 22m and is to house, among other things, the Jewish Museum of Berlin. Yet another restoration is that of the citadel in Spandau, to be completed at a cost of DM 72m with DM 27m coming from West Germany.

West Berlin's postwar cultural complex, acting toward East Berlin's restored Unter den Linden, has a DM 200m addition, the State Library designed by the late Hans Scharoun. Scharoun was also the gifted architect of the nearby Philharmonic building whose striking in-round interior and acoustics make it one of the finest of modern concert

BERLIN-CHARLOTTENBURG 1030AM



Research for Tomorrow's World

The future is daily routine at Heinrich-Hertz-Institute for communications technology. Here basic research goes into the development of new sound and picture transmission systems, such as two-way cable TV, text screen display, laser beam and fiber glass as media for storing, transmitting and processing of data. The impact of new technology now under development has yet to be assessed. It will provide new highly qualified jobs, revolutionize office management and open up a whole new dimension of utilizing TV systems for telecommunication.

A total of DM 600 million annually goes into research and development in Berlin. With its 106 institutes, 9 technical colleges, 2 universities and its cultural and scientific background Berlin rightly lays claim to being the Federal Republic of Germany's centre of science and research. For more information turn to Berlin's press and information centre: Presse- und Informationsamt des Landes Berlin 22/79, Rathaus Schöneberg, 1000 Berlin 62.

Research in Berlin

WEST BERLIN IV

Provocative city liked by artists

A FOREIGN theatre director says living in Germany brings out a creative tension between himself and his surroundings because Germans are forever asking provocative questions. He would find Berlin tailor-made for him because it is certainly one of the most provocative cities there is.

Berlin is the youngest of the great European cities and yet it has seen so much it seems to know it all. Divided Berlin is a microcosm of divided Europe and yet the Berliner has had his fill of slogans and ideology.

Berliners in the West partake of the most democratic of societies while Berliners in the East live in the most dictated-to of proletarian dictatorships.

Berlin is where the Bauhaus, the German art and design movement, reached its zenith and where a generation later its successors are producing endless imitations. Berlin is where the German and European student revolt was sparked off by a visit to the city 12 years ago by the Shah of Iran.

The student revolt subsided into social democratic reforms for Germany but for the Shah of Iran it turned out to be the beginning of the end.

Berlin is also where the

former mayor, Herr Willy Brandt, confronted the Communists before and after the Wall was built and where he came to the conclusion that butting one's head against the Wall was not going to open it up.

Berlin gave birth to detente in Europe in the early 1970s but it is there that detente also met with the greatest resistance on both sides of the Wall. It is a city where tens of thousands of Germans from East and West meet each day and mainly compare incomes and prices.

Herbert von Karajan conducts what many regard as the world's most sublime orchestra there—the Berlin Philharmonic—and the schools produce adults who usually do not appreciate good music.

The city that once created operas, operettas and songs hummed by generations of Central Europeans now imports almost all its popular music from the U.S. and Britain.

Lure

Fifty years ago Berlin turned out an endless stream of quality films for European audiences. Now it is luring West German and foreign film makers with hard D-marks to come and make

films in the city. And the lure may even work.

Berlin may never again have the artistic life it enjoyed between the two world wars, but it does have a growing number of German and foreign painters and sculptors who find the atmosphere conducive to their work. A lot of the credit for this should go to the Artists in Berlin Programme started by the Ford Foundation and taken over by the German Academic Exchange Service.

The programme has brought to Berlin such painters, sculptors, writers and musicians as Edward Kienholz, Peter Sedgley, George Rickey, Dorothy Iannone, Miklos Haraszti, Rick Cluchey, George Tabori, Witold Wirpsza, and Isang Um Yun, many of whom have decided to stay.

Among the local painters and sculptors with a following are Kurt Muhlenhaupt, whose Berlin primitives are especially popular in West Germany and Bernhard Heiliger, who is mainly a representational painter.

Those who are knowledgeable about the local art scene say too many Berlin artists are more concerned with getting a share of the city's financial support for

artists than they are in achievement on their own. The artists in turn, criticise the city for engaging in too much cultural representation such as the Twenties Meeting the Seventies in London, the Paris-Berlin

disappointment. The great student demonstrations of the 1960s and 1970s have died down but some of their theatrical flavour lingers on at the city's annual May Day demonstrations.

Berlin, East and West, boasts

no fewer than four competing May Day demonstrations, from the highly organised march-past in East Berlin with thousands of booming loudspeakers, to the clenched fists of the Communist League of West Germany in a working-class district.

Young Leftists at the West Berlin demonstration are dressed for the occasion in some of the finest proletarian tailoring seen on the stage of the Berliner Ensemble theatre in East Berlin. Their discipline is nearly as impressive as it was during the student revolt when young Berliners, chanting "Mao Tse-tung" and charging down the fashionable Kurfurstendamm would be stopped in their tracks when the traffic lights turned red.

The Schaubuhne am Hoheschen Ufer, Berlin's most celebrated theatre, is the place to experience extraordinary acting and staging even of unremarkable plays such as the current Rudi, by Bernard von Brentano. It is being presented in an abandoned former luxury hotel which abuts the Berlin Wall—one of the theatre's temporary venues until its new premises are ready.

The Schaubuhne's current 54-hour production of Dean Destruction and Detroit by Robert Wilson is a treat for those with the endurance to sit it out in the queues and the luck to get tickets. The Schaubuhne will be getting a reconstructed DM 70m theatre of its own from the city on the Kurfurstendamm and with the level of public support it is getting, it is hoped that rigor mortis will not set in.

Walk-out

Berlin is the city of cultural festivals with theatre and music festivals in both east and western sectors and the annual West Berlin Film Festival. This February it was interrupted by a classic Cold War walk-out by the East Europeans over The Deer Hunter, a not very incisive American film about the Vietnam war.

A new festival is being held this year in June called Horizons, the First Festival of World Cultures. It is to be inaugurated by Herr Brandt, in his capacity as President of the North-South Commission.

Dr. Ulrich Eckhardt, director of the Berlin festivals, says one

aim is to help Third World countries strengthen their cultural identities.

The idea is to get away from presenting, as he puts it, "African symphony orchestras that play Beethoven" and the first Horizons Festival is to stress Africa south of the Sahara including the cultures of the Caribbean and Latin America which were influenced by Black Africa.

Horizons may even succeed in bridging the gap between a festival and a large city with its musical programme devoted to African pop beat and rock and African bands appearing at street events all over West Berlin.

Miriam Makeba, who sang at last year's Jazz Days, has been invited to sing along with ten female musicians and singers from Guinea and there will be drummers from Burundi, Yoruba dancers from Nigeria and Afro-soul from the Ivory Coast.

Seminars

African theatre ensembles such as the Ghana Drama Studio, the University Theatre of Tanzania and the Aafuni Theatre will perform and authors from Black Africa will discuss the role of writers in developing countries.

It is evident that no expense is being spared by federal or local government to make sure that West Berlin stays in the mainstream of culture and the arts. This is also the reason the city supports the Aspen Institute of Berlin which, in the few years since it arrived, has brought leading politicians, economists and social scientists to West Berlin for seminars on problems facing the Western Communist and Third Worlds.

Incidentally, the former capital of former empire of Prussia, is planning to hold a spectacular exhibition in two years' time called "Prussia along the lines of the Twenties art exhibition which was a huge success in 1977.

The mere thought of Prussia causes Germans in other parts and many foreigners to wince, but the exhibition might turn out to be a highly provocative and perhaps eye-opening event.

L.C.

Aspen Centre's Success

THOSE DESIRING peace and quiet in order to think more deeply are wise to look for an island. But those seeking a reminder of the harshest realities of international politics will find it in Berlin. So an island in West Berlin seems the ideal spot for those who want both at the same time.

Since 1974 these conditions have been fulfilled by the Aspen Institute, perched on Schanzenwerder Island in the Wannsee lake, on the outskirts of West Berlin. A boat trip one way would take you towards the centre of the city and the other way would carry you to the border with East Germany.

In the institute's main room with a view out across the water, hundreds of politicians, academics, journalists and others from many countries have gathered over the years to discuss topics ranging from arms control and nuclear energy to education at the end of the century.

Heated

Each meeting is limited to a maximum 24 participants so that the exchange is more intimate and frank than at many other international symposia. But however fascinating the topic and heated the discussion, it is hard to forget at Aspen the political environment to which ideal theoretical solutions must be tailored.

Aspen, Berlin, is an offshoot of that "institute for humanistic studies" which began in 1949 in Aspen, Colorado, with a con-

ference bringing together among others, Albert Schweitzer, Ortega y Gasset and Thornton Wilder. The institute's operating budget now exceeds \$1m from public and private sources. Its headquarters is in New York and it has a board of international trustees.

The success of the Berlin centre clearly hinges in large measure on its director, Mr. Shepard Stone, almost an honorary citizen, who knew Berlin as a student in the 1920s and Germany in the post-war years as director of public affairs to the U.S. High Commissioner, John McCloy.

"Shep" Stone appears to know almost everyone who is anyone (Chancellor Helmut Schmidt and Dr. Henry Kissinger have been just two recent participants at Aspen)—but is no respecter of persons. Those inclined to mumble or wander from the point are rapidly put right by a sharp interjection—however renowned they may be.

Where does Aspen, Berlin, go from here? One clear answer is that it is ideally situated to profit from that developing dialogue between East and West Germany—whose significance goes far beyond the two German states alone.

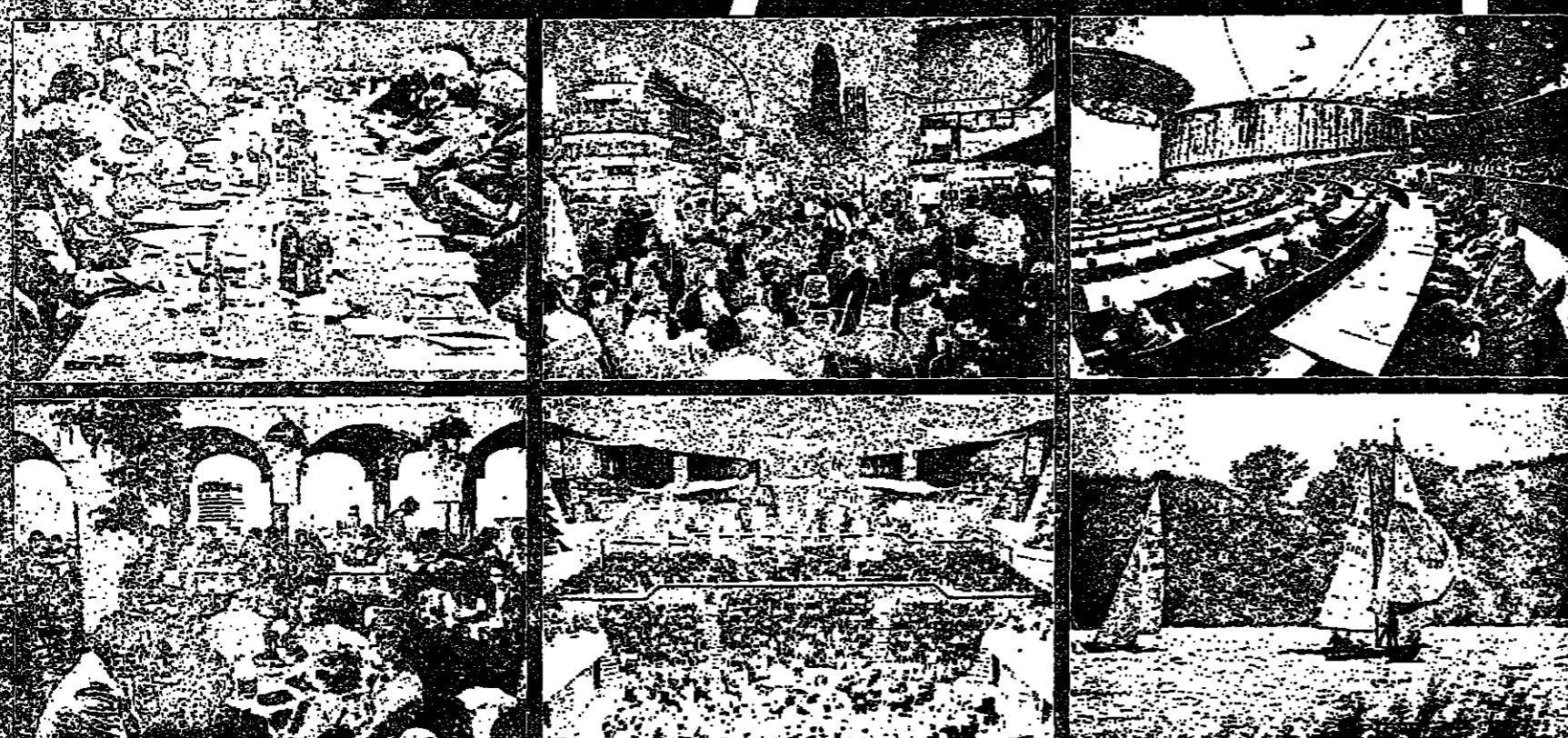
It provides an ideal forum for detailed, personal discussion of political and cultural issues with our formal political commitment. From this viewpoint, it is not fanciful to suppose that Aspen, Berlin, will be holding still more rewarding gatherings in the next few years.

Jonathan Carr



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St Securities (C.I.) Limited				
24, St. Heller, Jersey	0534 76077			
Sec. Fd.	[SUS] 100 13.00			3.85
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Tz.	[SUS] 107.7 100.78	+2.7		12.41
Next dealing April 2				
Tz. (C.I.)	[SUS] 109			3.54
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Sydney				
Fund	[SUS] 48			
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America International S.A.				
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Income	[SUS] 105 112.73			8.21
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1 Regence B 1000 Brussels				
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63, St. Heller, Jersey 0534 74806				
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St. Douglas, I.o.M.	0624 4856			
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income	[SUS] 7 42.34			8.20
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Mutual	[SUS] 7 27.9			1.70
State Commodity Ser. Ltd.				
2 Douglas, I.o.M.	0624 4856			
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508, Grand Cayman, Cayman Is.				
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Dec. June	Carr's Milling	114	114	2	1.8	1,200
Dec. June	Carlsberg 200	21	21	0	0	2,000,4
May May	Clifford Indus.	65	65	2	3.1	4,9
May May	Co. Int'l. N.Y.	75	75	2	2.7	5,000,4
June June	D.A. 200	130	112	-8.0	10	5,000,4
May May	Danone Bch. A'1	34	34	0	0	9,47
May May	Davidson L. Co.	22	20	-1.0	4.5	1,000,2
May May	Fisher J. E. 50	81	81	0	0	1,7
May May	Fisher C. 50	100	100	0	0	1,700,2
May May	Fitch Lovell 200	68	68	0	0	3,000,4
May May	Glass Glover 50	56	56	0	0	2,500,4
May May	Glaxo 200	21	21	0	0	1,500,4
May May	Hilman A. 100	211	211	5.0	5.2	5,4
May May	Kirk 200	227	227	0	0	1,000,2
May May	Kirk 100	111	111	0	0	2,000,4
May May	Lever 200	21	21	0	0	2,000,4
May May	Lewens Coly 100	51	51	0	0	1,500,4
May May	Lindt H. 100	14	14	0	0	1,500,4
May May	Lowell G. F.	64	64	0	0	1,000,4
May May	Low (Wm.) 200	102	102	0	0	1,000,4
May May	Matthews (B)	27	27	0	0	1,000,4
May May	Meat Trade Sun.	177	177	0	0	1,000,4
May May	Morgan Eng. 100	137	137	0	0	1,000,4
May May	Needlers	51	51	0	0	1,000,4
May May	Novartis 100	50	50	0	0	1,000,4
May May	Odeon (D.F.J.) 50	78	78	0	0	1,000,4
May May	Orkland Quaker	24	24	0	0	1,000,4
May May	Orkland Quaker	24	24	0	0	1,000,4
May May	Panto (P) 100	95	95	0	0	1,000,4
May May	Prudential 100	121	121	0	0	1,000,4
May May	Ramsey 100	49	49	0	0	1,000,4
May May	Roberston Foods	21	21	0	0	1,000,4
May May	Rowden M. 50	410	410	0	0	1,000,4
May May	Salsbury (J.)	78	78	0	0	1,000,4
May May	Sampson	45	45	0	0	1,000,4
May May	St. Martin El. 100	49	49	0	0	1,000,4
May May	Stocks (Joseph)	159	159	0	0	1,000,4
May May	Tate & Lyle 100	42	42	0	0	1,000,4
May May	Tesco 200	151	151	0	0	1,000,4
May May	Thornhill Barba. 100	178	178	0	0	1,000,4
May May	Wardle (Ber.) 100	95	95	0	0	1,000,4
May May	Worx Chems.	85	85	0	0	1,000,4

ENGINEERING—Continued

Dividends Paid	Stock	Price	Last	Chg	%	Trd
Oct. Jan.	[Allen] W.G. 100	160	160	0	0	1,000,4
Oct. Jan.	Alpen. Power	135	135	15.0	11.1	1,000,4
Oct. Jan.	Anglo. Sylva	68	68	2	3.0	1,000,4
Oct. Jan.	Anglo-Swiss	48	48	0	0	1,000,4
Oct. Jan.	Ash & Lish.	150	150	0	0	1,000,4
Oct. Jan.	Aust. Towing	45	45	0	0	1,000,4
Oct. Jan.	Bacardi 200	21	21	0	0	1,000,4
Oct. Jan.	Balfour Beatty	112	112	0	0	1,000,4
Oct. Jan.	Bentley 100	112	112	0	0	1,000,4
Oct. Jan.	Bentley 200	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 50000000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500000000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000000000000000000000000000000000000000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000	112	112	0	0	1,000,4
Oct. Jan.	Bentley 500	112	112	0	0	1,000,4
Oct. Jan.	Bentley 5000	112	112	0	0	1,000,4

INDUSTRIALS—Continued

	Stock	Price	Lst	Chg	Cw	Tm	P/E
July	Fab. Handicrafts Ltd.	64	23.0	4.6	2.8	7.8	5.0
Nov.	Hawthorn Sp.	18	17.75	1.0	1.0	—	—
Dec.	Jones Ray (Incor.) Ltd.	64	23.05	2.5	2.1	7.9	5.0
Jan.	Joyce's Wharf E.I.	22	21.0	2.5	2.1	6.7	5.0
Feb.	Kelvin Industries Ltd.	39	11.12	1.1	0.8	2.7	2.6
Mar.	Kennedy Corp. Crm.	10	11.0	0.5	0.4	2.7	2.6
Apr.	Kingfisher Ind.	54	21.0	1.0	0.8	2.7	2.6
May	Kingsway Ind.	32	16.0	2.5	2.0	6.5	4.5
June	Kingsway Ind. (J.S.)	52	16.0	2.5	2.0	6.5	4.5
July	Kingsway Ind. (J.S.)	52	16.0	2.5	2.0	6.5	4.5
Aug.	Kingsway Ind. (J.S.)	52	16.0	2.5	2.0	6.5	4.5
Sept.	Air-King Ind.	22	21.0	2.5	2.0	6.5	4.5
Oct.	Sell. Holden Bros.	74	15.0	1.5	1.2	9.2	5.0
Nov.	Holt Lloyd Ind.	150	16.0	2.5	2.0	13.8	5.0
Dec.	Sell. Hoover Ind.	74	15.0	1.5	1.2	9.2	5.0
Jan.	Hudson Ind.	22	21.0	2.5	2.0	6.5	4.5
Feb.	Hudson Ind.	22	21.0	2.5	2.0	6.5	4.5
Mar.	Hudson Ind.	22	21.0	2.5	2.0	6.5	4.5
Apr.	Hudson Ind.	22	21.0	2.5	2.0	6.5	4.5
May	Huntington Assoc.	217	14.0	1.9	1.2	1.1	1.7
June	New Huntington Ind.	59	15.0	0.5	0.4	2.7	2.6
July	Deutsche Schuh Ind.	101	15.0	0.5	0.4	2.7	2.6
Aug.	TDAS Charge Al.	101	15.0	0.5	0.4	2.7	2.6
Sept.	TDAS Charge Al.	101	15.0	0.5	0.4	2.7	2.6
Oct.	TDAS Charge Al.	101	15.0	0.5	0.4	2.7	2.6
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FINANCIAL TIMES

Monday April 2 1979

FT BUSINESS OPINION SURVEY

Economic hopes still at low level

BY DAVID FREUD

INDUSTRY'S confidence about the prospects for the UK economy continued to fall last month, according to the Financial Times survey of business opinion, published this morning. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund deal was being negotiated.

Industrialists were also less

mistic about the general business outlook, with labour unrest, fears of recession and gloomy attitudes to world economic developments, the most commonly cited reasons.

The survey, conducted in March, covered executives in the building and construction, textile and clothing and food and tobacco sectors. The interviews were conducted well

EARNINGS ON CAPITAL

Those expecting earnings during the current year to:	4 monthly moving total				March 1979		
	Dec. Mar. % 62	Nov. Feb. % 57	Oct. Jan. % 51	Sept. Dec. % 49	Construc- tion Tobacco Food & Textiles Clothing % 60 35 54	March 1979	
Improve	62	57	51	49	60	35	54
Remain the same	23	22	19	17	25	27	29
Contract	8	11	17	22	11	19	12
No comment	7	10	13	12	4	19	5

before the likelihood of an early General Election became apparent.

The survey finds some evidence of slackening demand, both at home and abroad, with a decline in prospects for exports and the level of turnover over the coming year.

However, new orders remained at a relatively high level, as did order books, suggesting that the drop in demand has not yet had a serious impact.

One of the main complaints over the conduct of the economy was the unequal level of pay settlements. It was feared that these might lead to further wage inflation and industrial trouble before the end of the current wage round.

Details, Page 6

Teamsters confront Carter policy

By Stewart Fleming in New York

TEAMSTERS' UNION has launched the first major challenge to the wage guidelines of President Carter's anti-inflation policy.

Early yesterday, weeks of intense talks in the trucking industry over a new three-year wage contract for some 300,000 drivers and warehousemen broke down, even though the two sides were close to agreement.

Mr. Frank Fitzsimmons, president of the scandal-ridden union, announced that he would call selective strikes across the country in an effort to force the employers—and the administration—into accepting an agreement which would almost certainly breach the anti-inflation policy.

President Carter has acknowledged that so far as the wage guidelines are concerned, the settlement in the trucking industry is a critical test. The administration's anti-inflation guidelines have their origins in the Labour Department, which feared that settlements in this year's crucial round of wage negotiations could underpin an even higher rate of inflation.

Mr. Fitzsimmons blamed the talk breakdown on Government intervention in the collective bargaining process.

It appeared both sides had accepted a basic \$1.50 an hour increase on the current average of around \$9.40. Since the negotiations opened, however, it has been recognised that the most difficult part would be to reach agreement on the package of benefits, including such things as pension payments and cost of living allowances. So it has proved.

Andreotti resigns as Italy coalition falls

By PAUL BETTS IN ROME

THE NEW Italian coalition Government of Christian Democrats, Republicans and Social Democrats was defeated in the Senate confidence debate at the weekend by a single vote, opening the way to an early election.

After the vote, 150 against and 149 in favour, Sig. Andreotti, the Prime Minister, tendered his resignation to Sig. Sandro Pertini, the Italian President.

Although President Pertini might try to avoid an 11-hour compromise to avoid early elections, a reconciliation between the country's two main parties, the Communists and the Christian Democrats, is generally ruled out at this stage.

The President has summoned Sig. Pietro Ingrao, the Communist leader of the Chamber of Deputies, and Senator Amintore Fanfani, the Christian Democrat leader of the Senate, to a meeting today.

The Communists, who are holding their 15th national con-

gress, again declared unambiguously at the weekend that any agreement would have to see direct participation by their party in any new Government. The presence of Communist Ministers in the Cabinet has been rejected equally firmly by the Christian Democrats.

In the face of the deadlock, President Pertini is expected to dissolve Parliament in order to combine the General Election with the elections for the new European Parliament, to be held in Italy on June 10.

Opposition

During the two electoral campaigns, Sig. Andreotti's Government would remain temporarily in office as a caretaker administration.

The coalition Government was widely expected to lose the confidence vote because of the opposition of the two main Left-wing parties, the Communists and the Socialists.

For their part, the Com-

munists are indicating in their party's national congress that they intend to pursue the hard line that would lead to their opposing any future Government in which they were not directly represented.

That largely reflects the discontent and discomfort that the former alliance with the Christian Democrats provoked within the party and the leadership's attempts to recover the vote of the Communist Party left.

Meanwhile, the country's climate of political uncertainty has deteriorated in the light of growing signs of renewed inflation and the possible repercussions of the controversial Bank of Italy affair, which has now caused a significant dispute between the country's political and economic forces and the judiciary.

Official figures released at the weekend show a 1.7 per cent increase in wholesale prices over January, confirming the worrying trend of the past few months.

Fresh Government funds up to £150m set for BL

By JOHN Elliott, INDUSTRIAL EDITOR

FRESH Government funds totalling about £100m to £150m are expected to be announced today for BL, formerly British Leyland.

The way will be cleared for the Industry Bill, which raises the borrowing limits of the National Enterprise Board to £4.5bn, to receive the Royal Assent this week.

This provides BL with the money it urgently needs to push ahead with investment programme. It will enable the NEB to fund both BL and Rolls-Royce in the coming months, despite the uncertain future that some of its activities may face under a Conservative Government.

It seems unlikely that the NEB's five-year corporate plan, which has been with the Department of Industry for some weeks, will be approved before the General Election.

This will give the next Government an immediate chance to review its proposals without having to recall the plan from Sir Leslie Murphy, chairman of the NEB.

during the General Election campaign.

This has some political significance, but should not affect the operations of the NEB, which is unlikely to finalise any major entrepreneurial deals in the coming month. In any case it has £130m of its present £1bn borrowing limit still in hand.

Mr. Eric Varley, the Industry Secretary, is due to announce the new funding arrangements for BL in the Commons in answer to a Parliamentary question on the company's future.

BL needs a further tranche of the £1bn long-term advances agreed by the Government to fund major investment projects, which this year are expected to exceed last year's total of £233m.

The projects include expanding Land Rover and Range Rover production, introducing the "super-mini" next year, and replacing the Marina range in 1982.

Unions seek Whitley break-up

By PHILIP BASSETT and NICK GARNETT

IN A further bout of inter-union dispute the two biggest Civil Service unions decided yesterday to attempt dismantling the whole national negotiating machinery for the 600,000 Civil servants.

On the eve of today's one-day strike over pay, which may seriously affect air flights and other services, the Civil and Public Services Association and the Society of Civil and Public Servants decided to withdraw from all meetings of the central policy-making committee of the Staff Side on the National Whitley Council.

The council, made up of an eight-union staff side and representatives of the Civil Service Department, has negotiated wages and conditions for nearly 18 years.

In a bitter procedural wrangle with other unions and the Government, the two unions, together representing half the civil servants, have decided to inform the national staff side meeting on Thursday that they have no confidence in it and that the present machinery should be wound up.

The executive of both unions, which intend drawing up alternative proposals for a national negotiating system, formally rejected the Government's offer of 9 per cent, with half the rest of the rises due from a comparability study to be paid on August 1 and the

two general secretaries had been invited.

The Institution of Professional Civil Servants, the First Division Association and the Association of Government Supervisors and Radio Officers are prepared to recommend acceptance.

The Prison Officers' Association has told Ministers that its overtime ban will go ahead until its executive considers the offer on Wednesday. The Civil Service Union and the Inland Revenue Staffs Federation are both unhappy with the offer, since many of their members are low-paid and the offer is weighted toward the higher staff grades.

The present crisis on the staff side stems from a meeting on Thursday, a day before formal pay negotiations, at which Mr. Roy Hattersley, the Prices Secretary and public-sector pay co-ordinator, met general secretaries of five of the smaller Civil Service unions.

Mr. Ken Thomas and Mr. Gerry Gillman, general secretaries of the CPSA and the Society of Civil and Public Servants, said yesterday that they had been deliberately excluded from what was in effect a "secret" meeting on Thursday.

The Civil Service Department and some other unions denied that the meeting was secret, and were adamant that

hydrogen gas bubble expanding.

The power company has announced that its insurers, C. American Nuclear Insurers, will take claims from residents for any expenses of their evacuation and for any damage. Damage to the \$1bn (£500,000) plant itself could run into hundreds of millions of dollars.

Mr. Bruce Millan, the Scottish Secretary, said yesterday that gases were being drained from the reactor to prevent this. The second problem is to reduce the size of the bubble, which is big enough to block further cooling of the reactor fuel core.

Severe damage to uranium fuel rods has kept reactor temperature high—still around 280 degrees Fahrenheit—while pressure inside the reactor is being maintained at 1,000 lbs per square inch to stop the

THE LEX COLUMN

The Budget that never was

Following the defeat of the Government in the Commons the Conservatives have refused to allow Mr. Denis Healey to present a formal Budget speech tomorrow. Many weeks of work by a top Treasury team have therefore been for nothing. However, from a usually reliable source we have been able to obtain a draft of what the Chancellor had intended to say.

"Since this is to be my final Budget speech, I hope my honourable friends in the House will forgive me if I start on a personal note. I was touched this morning to receive a message of congratulations and thanks from a representative of the Association of Tax Consultants, in grateful recognition of all that I have done for their volume of business since 1974."

"They have presented me with the Golden Loophole award,

which carries with it a free holiday in the Cayman Islands.

"Messages of congratulations and best wishes have also come from the Society of Gilt-Edged Dealers, the Lease Brokers Federation and the Guild of Investment Currency Traders, the last of which have said they really do not know what they will do when I have gone.

"My period of stewardship is ending with the economy in an unusually healthy state. As you know, sterling has been one of the strongest currencies in the world recently, in spite of the absence of the monthly trade figures, and investors in the City have been literally fighting to buy Government securities.

"The view in both Brussels and London is that the protests will be produced much more for domestic political consumption ahead of the election than any serious hope of securing early agreement of the UK's contributions to the Community Budget.

"Our efforts to stimulate the so-called black economy have been highly successful, and I am grateful to Sir William Pile, Chairman of the Board of Inland Revenue, for his statistical work on the subject. Accordingly today we are publishing revised national income figures which take this unofficial activity fully into account. They show that economic growth last year was not 3 per cent but 8 per cent.

Stop for Red

"I must, however, make one apology. We have been unable to produce the normal Red Book which customarily accompanies a full Budget statement, because of an industrial dispute in the Civil Service.

"When our computer programmers learned of the low budgeted figure for the rise in fundamental pay, they immediately went on strike. However, the calculations for the Budget have been carefully checked by my

assistant, Mr. Davies.

"Both major parties in Britain are agreed on the need for changes in the Common Agricultural Policy and in the budget as whole though they differ both internally and between each other on the desirable answers.

Some Tories have recently been critical of suggested solutions involving a rise in the EEC Budget, through say an expanded regional fund, because of their desire to check the overall size of public spending.

The main item on the agenda of today's meeting is a Commission Green Paper on how the EEC Budget might be financed in the 1980s. This calls for an adjustment in the pattern of contributions to ensure that less prosperous members do not pay more than rich countries. Mr. Davies has already welcomed the idea floated by the Commission that there might be a progressive element in the way contributions are calculated.

Among the other subjects due to be raised are relations with Turkey and Yugoslavia on the eve of further discussions with Greece about its entry into the EEC.

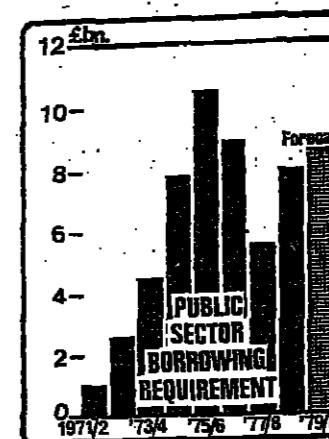
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Carter at N-plant

handling and outcome of the accident. The NRC in Washington has briefed British, Swedish and Japanese representatives, while France and West Germany have flown in nuclear experts.

The immediate concern is to keep the large hydrogen gas bubble filling the top of the reactor from reaching any explosive level. Metropolitan Edison said yesterday that gases were being drained from the reactor to prevent this. The second problem is to reduce the size of the bubble, which is big enough to block further cooling of the reactor fuel core.

Severe damage to uranium fuel rods has kept reactor temperature high—still around 280 degrees Fahrenheit—while pressure inside the reactor is being maintained at 1,000 lbs per square inch to stop the



"There is much talk these days about the public sector borrowing requirement—for too much talk in my view, considering that our Government's borrowing in this country is so much lower than in many countries overseas such as Turkey, Argentina or Zaire, to name just a few."

"Making these adjustments to the secret Treasury PSBR forecast which I was at last forced to accept, I can now say that the borrowing requirement on unchanged policies in 1979-80 would have been no more than £2.5bn."

Much relief

"This allows me to propose the secret Treasury PSBR forecast which I was at last forced to accept, I can now say that the borrowing requirement on unchanged policies in 1979-80 would have been no more than £2.5bn."

"One is a ridiculous high figure which is leaked to some of the more credulous City analysts so that the figure which is eventually published at the time of the Budget, will seem unexpectedly good by comparison."

"The second is an estimate that is discreetly circulated to the Cabinet to persuade the Departments to keep their spending down. The third is the one my officials tell me. But they keep secret their central estimate. Accordingly today we are publishing revised national income figures which take this unofficial activity fully into account. They show that economic growth last year was not 3 per cent but 8 per cent."